APPENDICES

Appendix 1. Letter of Acceptance

bangkit

No : **BA24-1/LoA/XXIV-02/M737D4KY2637**
Re : **Letter of Acceptance**

Dear Caku,

Following your registration and our subsequent rigorous selection process, we are pleased to inform **you that you are officially a Bangkit Academy 2024 batch 1 participant** with the following details.

Name	: Caku
NIM (Nomor Induk Mahasiswa)	: 200407124
Campus	: STKIP Persada Khatulistiwa
Study Program	: Pendidikan Bahasa Inggris
Registered Supervisor	: Sijono, M.Pd
Bangkit ID	: M737D4KY2637
Learning Path	: Machine Learning
Program Period	: 16 February - 31 July 2024

Bangkit is a Google-led career readiness program held in collaboration with Gojek, Tokopedia, and Traveloka. Affiliated with Studi Independen Bersertifikat - Kampus Merdeka, this program runs in the even semester of 2024.

We have selected you and all other participants fully confident in your ability to successfully study tech skills, soft skills, and English for professionals during their ±900 study hours in Bangkit (February - July 2024). If you pass the Bangkit graduation criteria, you will earn up to 20 credits (SKS) and many other benefits unique to this program.

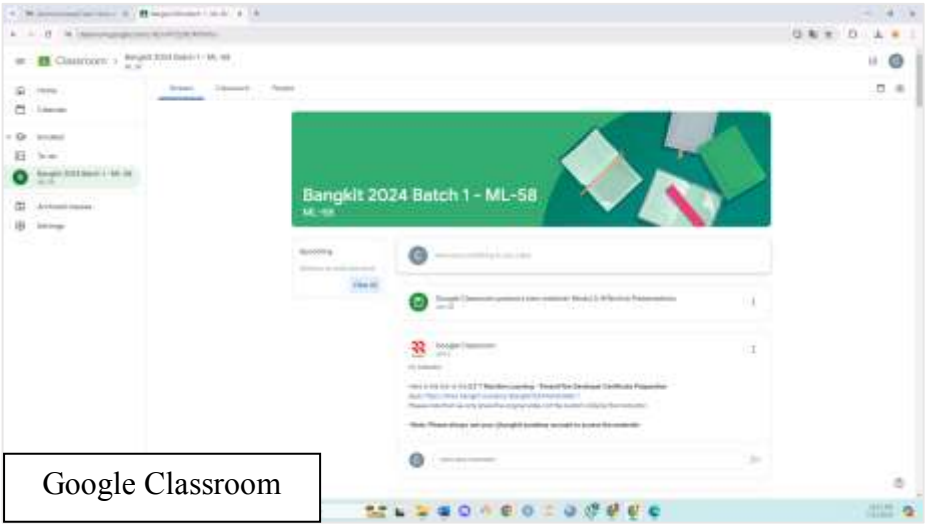
Congratulations! We look forward to your study progress and wish you all the best in your new study milestone in Bangkit.

6 February 2024
ID Program Manager
Bangkit Academy

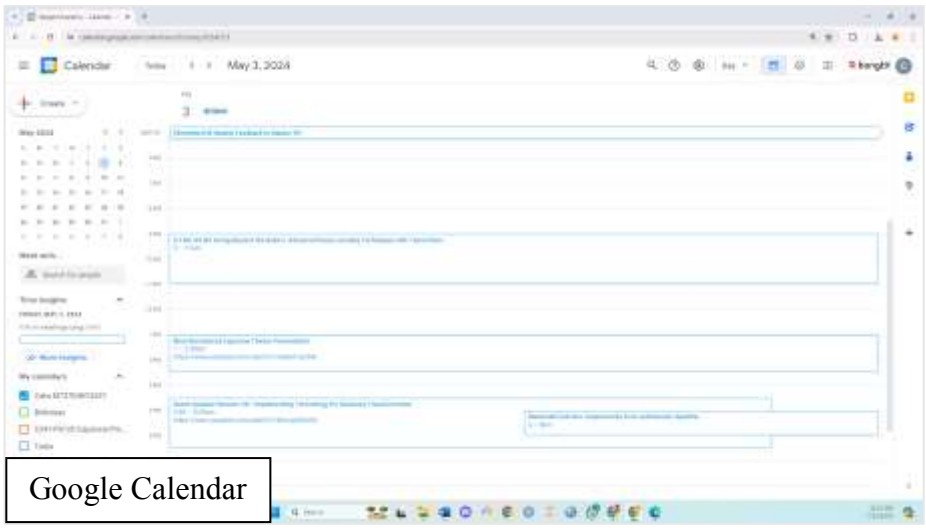
bangkit

Mutiara Arumsari

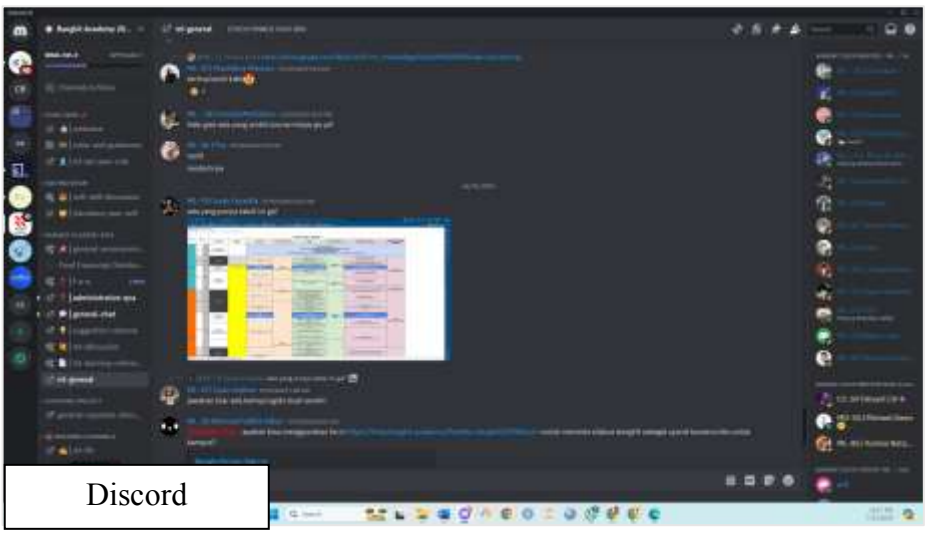
Appendix 2. Learning Management System



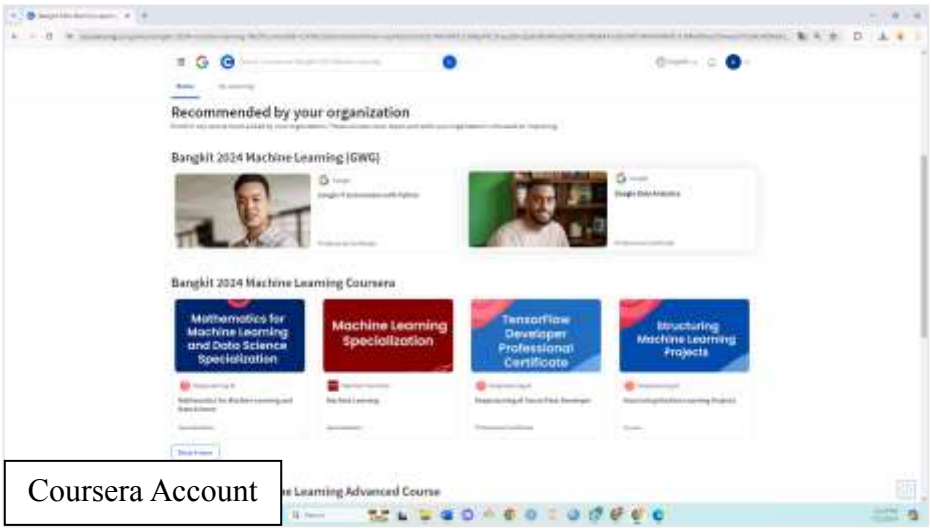
Google Classroom



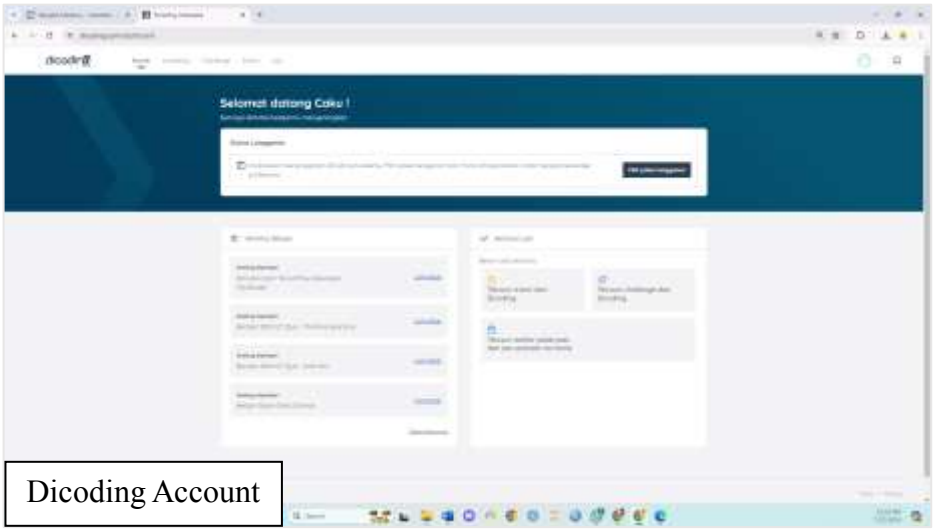
Google Calendar



Discord



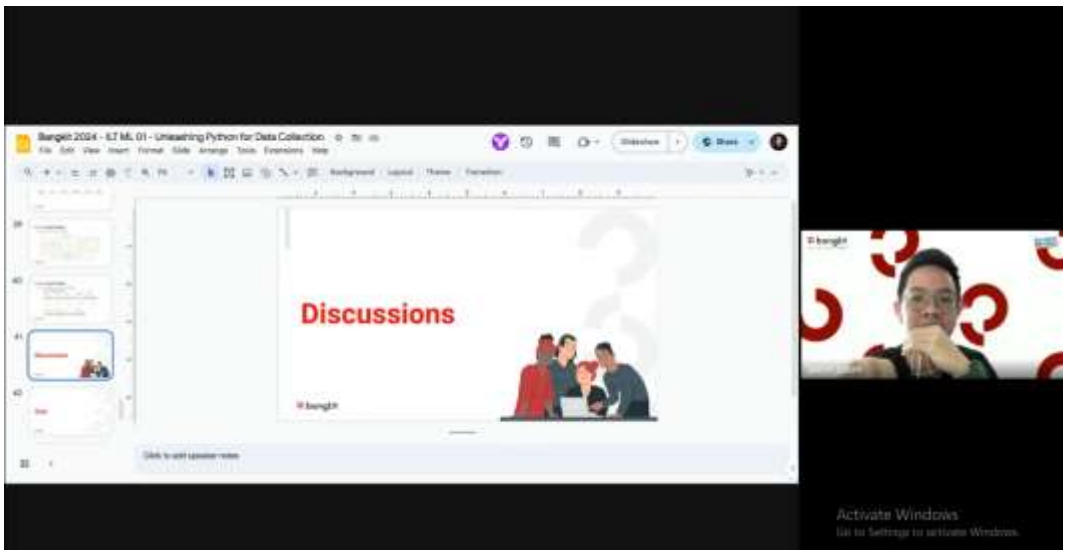
Coursera Account

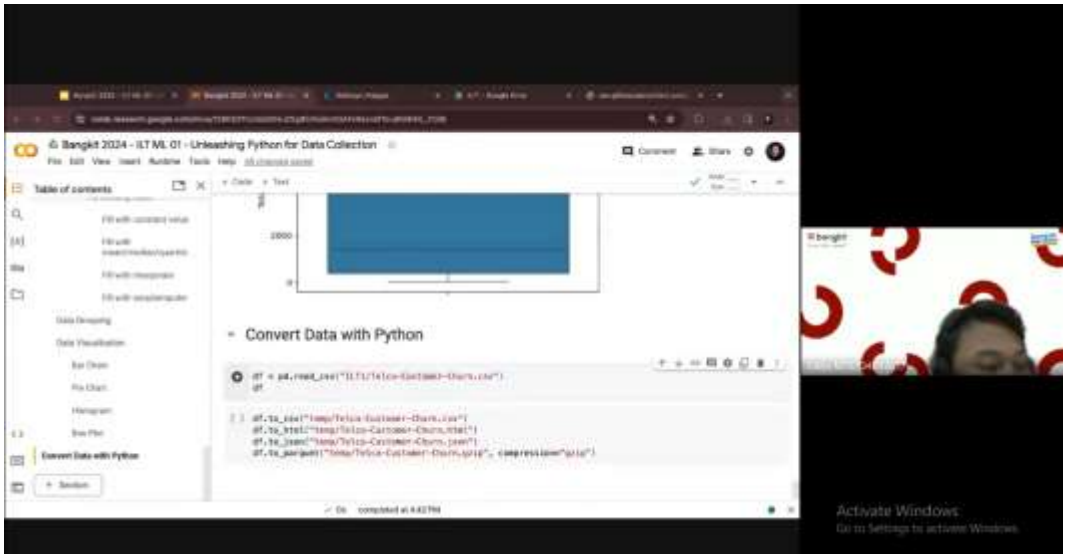


Dicoding Account

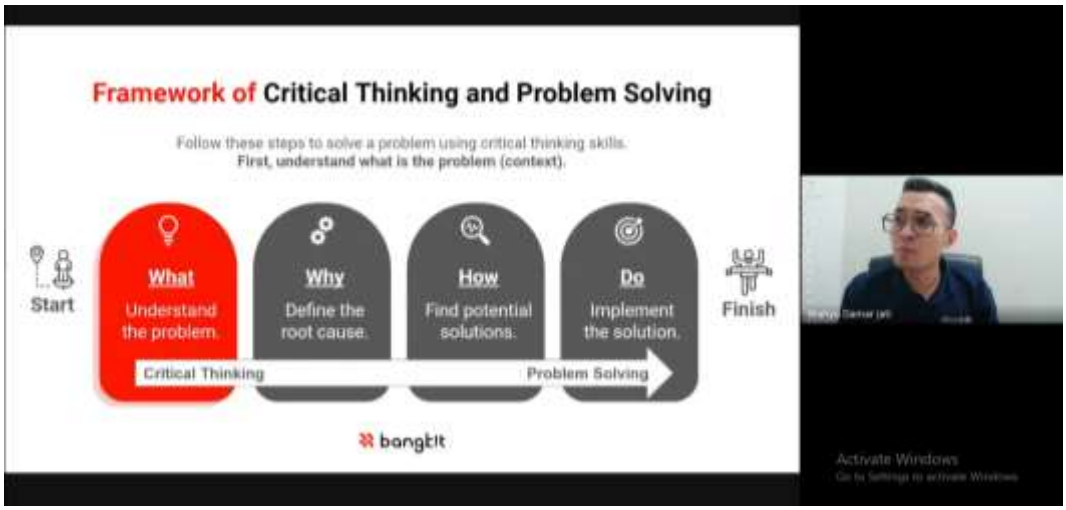
Whatsapp Group

Appendix 3. Instructor Led Training Tech



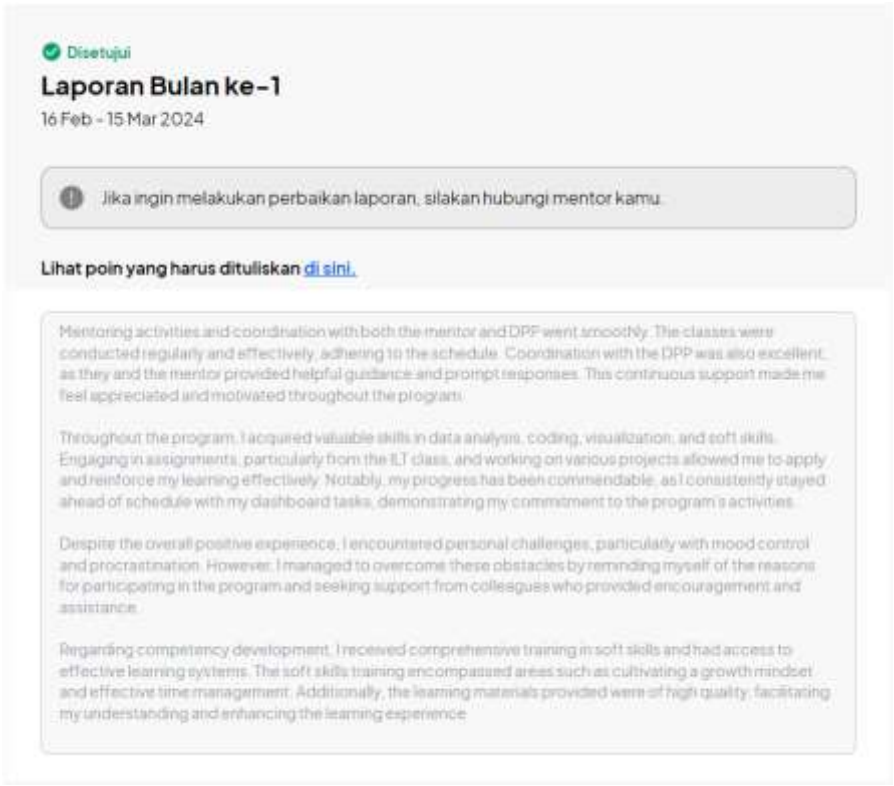


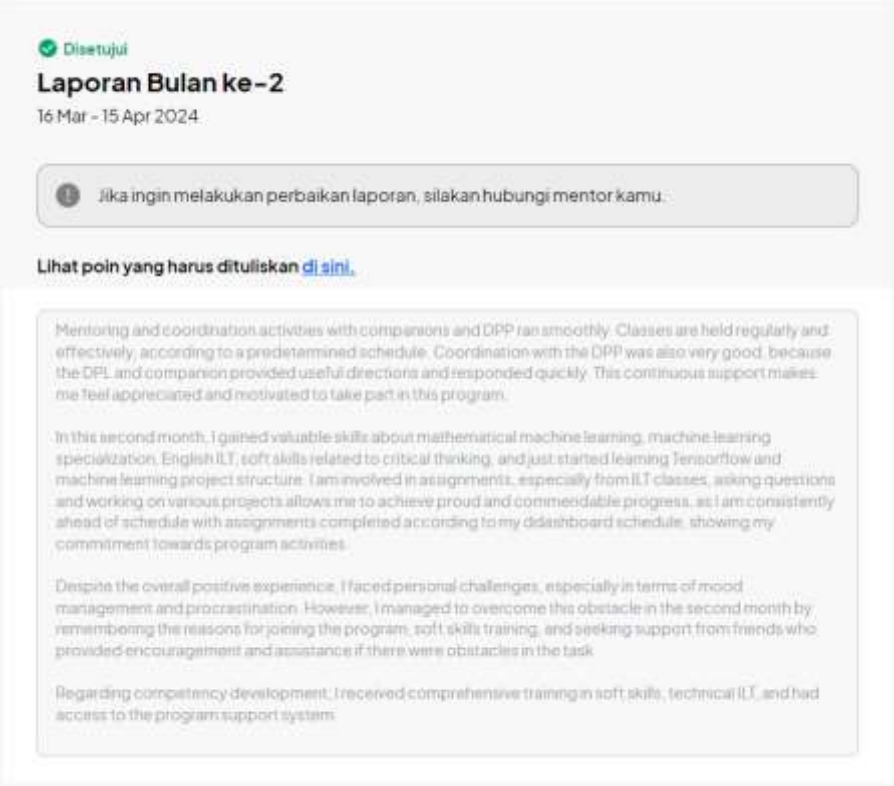
Appendix 4. Instructor Led Training Soft Skill

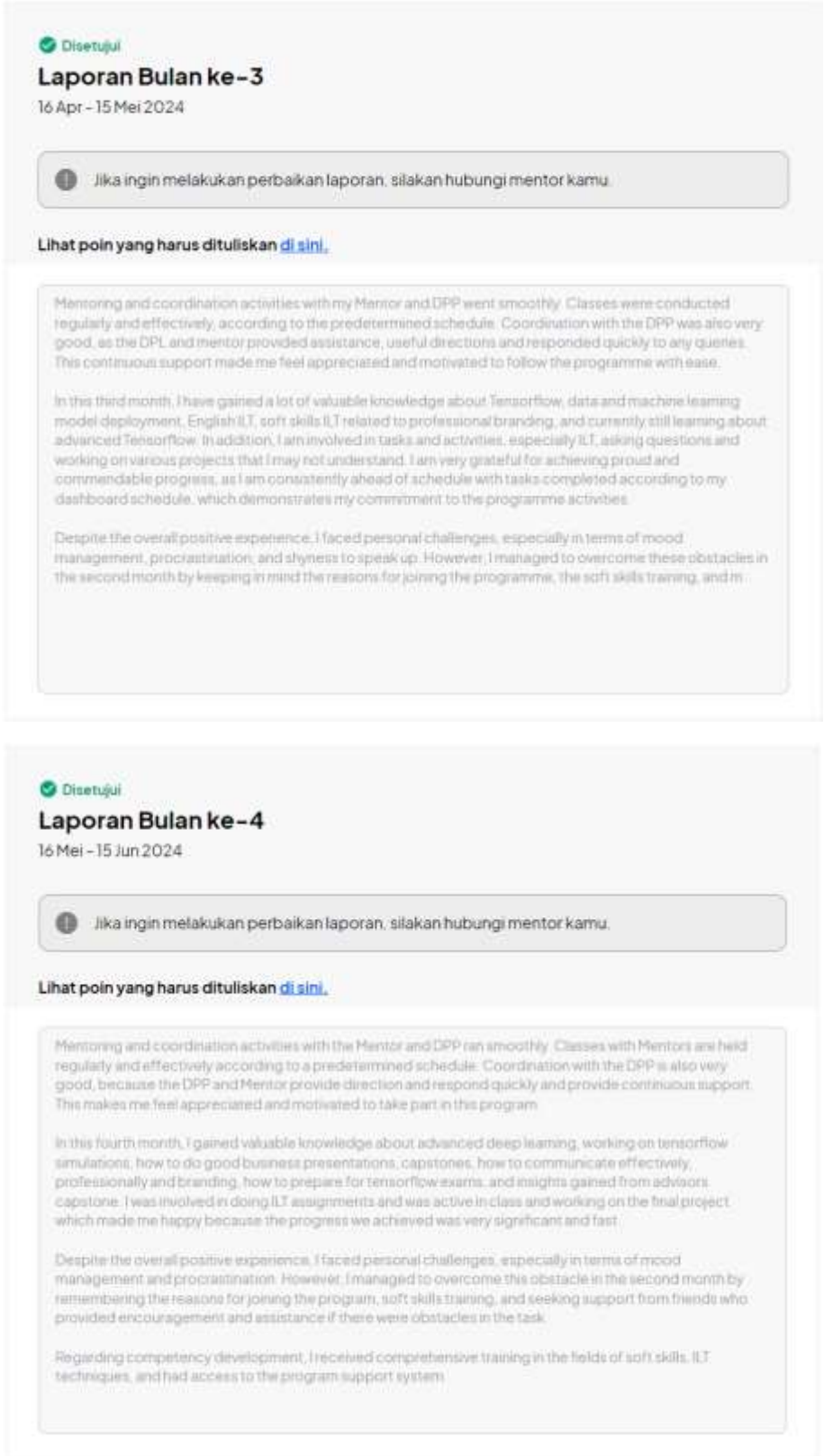


Appendix 5. Instructor Led Training English

Appendix 6. Logbook Kampus Merdeka







Disetujui

Laporan Bulan ke-3

16 Apr - 15 Mei 2024

Jika ingin melakukan perbaikan laporan, silakan hubungi mentor kamu.

Lihat poin yang harus dituliskan di sini.

Mentoring and coordination activities with my Mentor and DPP went smoothly. Classes were conducted regularly and effectively, according to the predetermined schedule. Coordination with the DPP was also very good, as the DPL and mentor provided assistance, useful directions and responded quickly to any queries. This continuous support made me feel appreciated and motivated to follow the programme with ease.

In this third month, I have gained a lot of valuable knowledge about Tensorflow, data and machine learning model deployment, English ILT, soft skills ILT related to professional branding, and currently still learning about advanced Tensorflow. In addition, I am involved in tasks and activities, especially ILT, asking questions and working on various projects that I may not understand. I am very grateful for achieving proud and commendable progress, as I am consistently ahead of schedule with tasks completed according to my dashboard schedule, which demonstrates my commitment to the programme activities.

Despite the overall positive experience, I faced personal challenges, especially in terms of mood management, procrastination, and shyness to speak up. However, I managed to overcome these obstacles in the second month by keeping in mind the reasons for joining the programme, the soft skills training, and m

Disetujui

Laporan Bulan ke-4

16 Mei - 15 Jun 2024

Jika ingin melakukan perbaikan laporan, silakan hubungi mentor kamu.

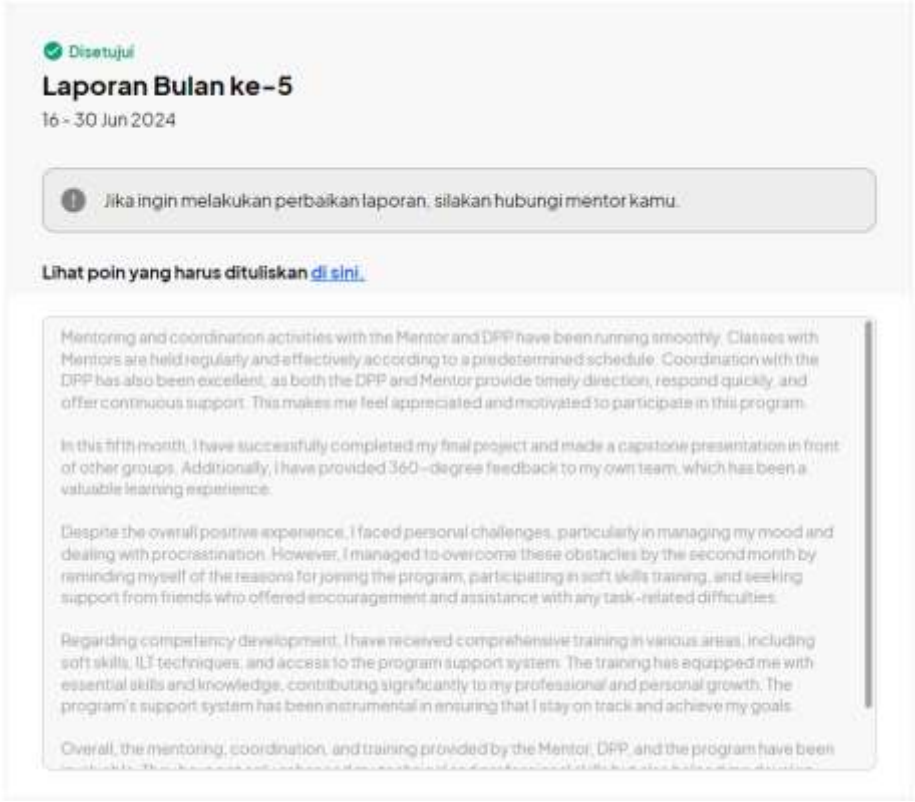
Lihat poin yang harus dituliskan di sini.

Mentoring and coordination activities with the Mentor and DPP ran smoothly. Classes with Mentors are held regularly and effectively according to a predetermined schedule. Coordination with the DPP is also very good, because the DPP and Mentor provide direction and respond quickly and provide continuous support. This makes me feel appreciated and motivated to take part in this program.

In this fourth month, I gained valuable knowledge about advanced deep learning, working on tensorflow simulations, how to do good business presentations, capstones, how to communicate effectively, professionally and branding, how to prepare for tensorflow exams, and insights gained from advisors capstone. I was involved in doing ILT assignments and was active in class and working on the final project which made me happy because the progress we achieved was very significant and fast.

Despite the overall positive experience, I faced personal challenges, especially in terms of mood management and procrastination. However, I managed to overcome this obstacle in the second month by remembering the reasons for joining the program, soft skills training, and seeking support from friends who provided encouragement and assistance if there were obstacles in the task.

Regarding competency development, I received comprehensive training in the fields of soft skills, ILT techniques, and had access to the program support system.



Disetujui

Laporan Bulan ke-5

16 - 30 Jun 2024

Jika ingin melakukan perbaikan laporan, silakan hubungi mentor kamu.

Lihat poin yang harus dituliskan di sini.

Mentoring and coordination activities with the Mentor and DPP have been running smoothly. Classes with Mentors are held regularly and effectively according to a predetermined schedule. Coordination with the DPP has also been excellent, as both the DPP and Mentor provide timely direction, respond quickly, and offer continuous support. This makes me feel appreciated and motivated to participate in this program.

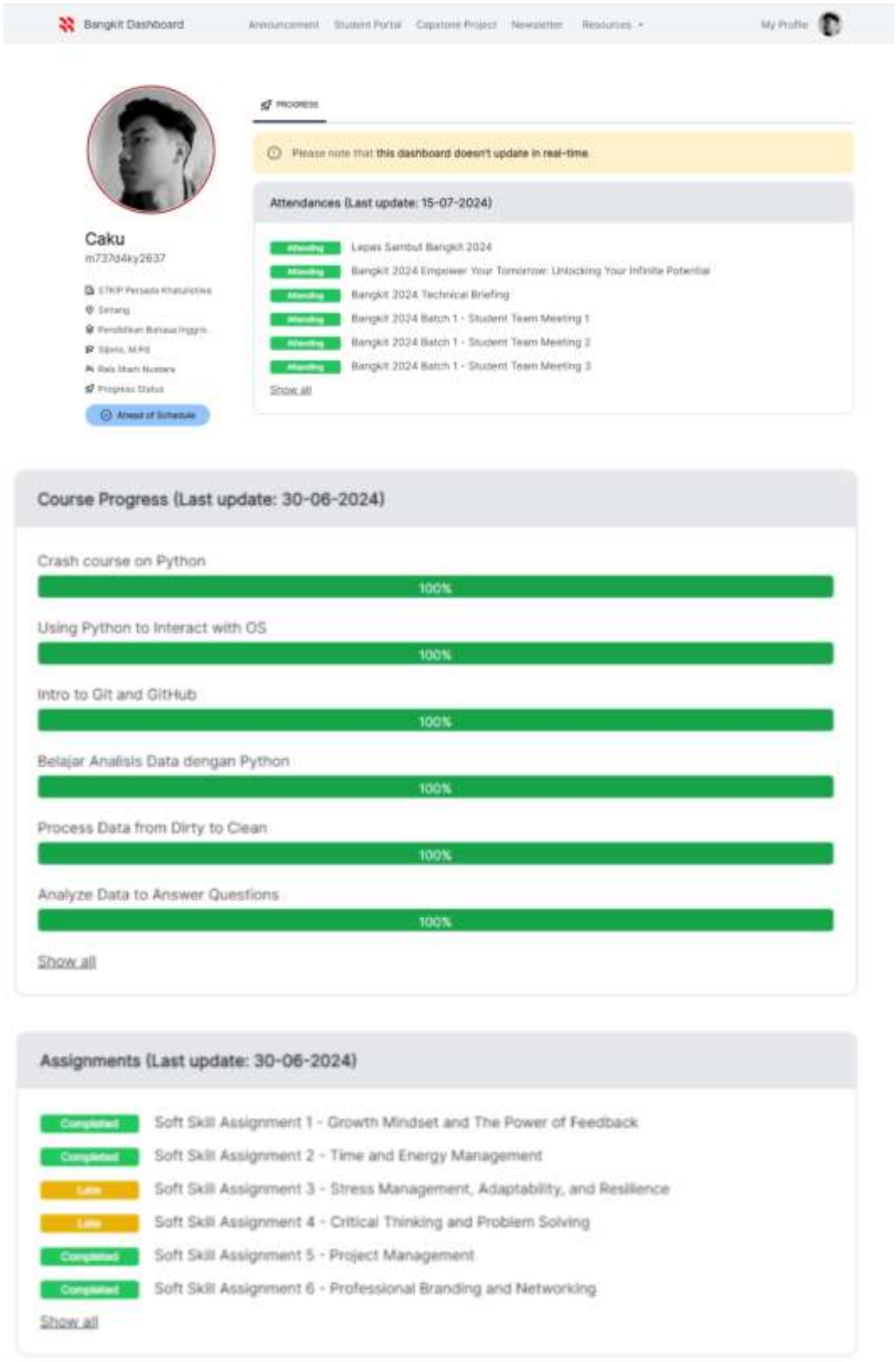
In this fifth month, I have successfully completed my final project and made a capstone presentation in front of other groups. Additionally, I have provided 360-degree feedback to my own team, which has been a valuable learning experience.

Despite the overall positive experience, I faced personal challenges, particularly in managing my mood and dealing with procrastination. However, I managed to overcome these obstacles by the second month by reminding myself of the reasons for joining the program, participating in soft skills training, and seeking support from friends who offered encouragement and assistance with any task-related difficulties.

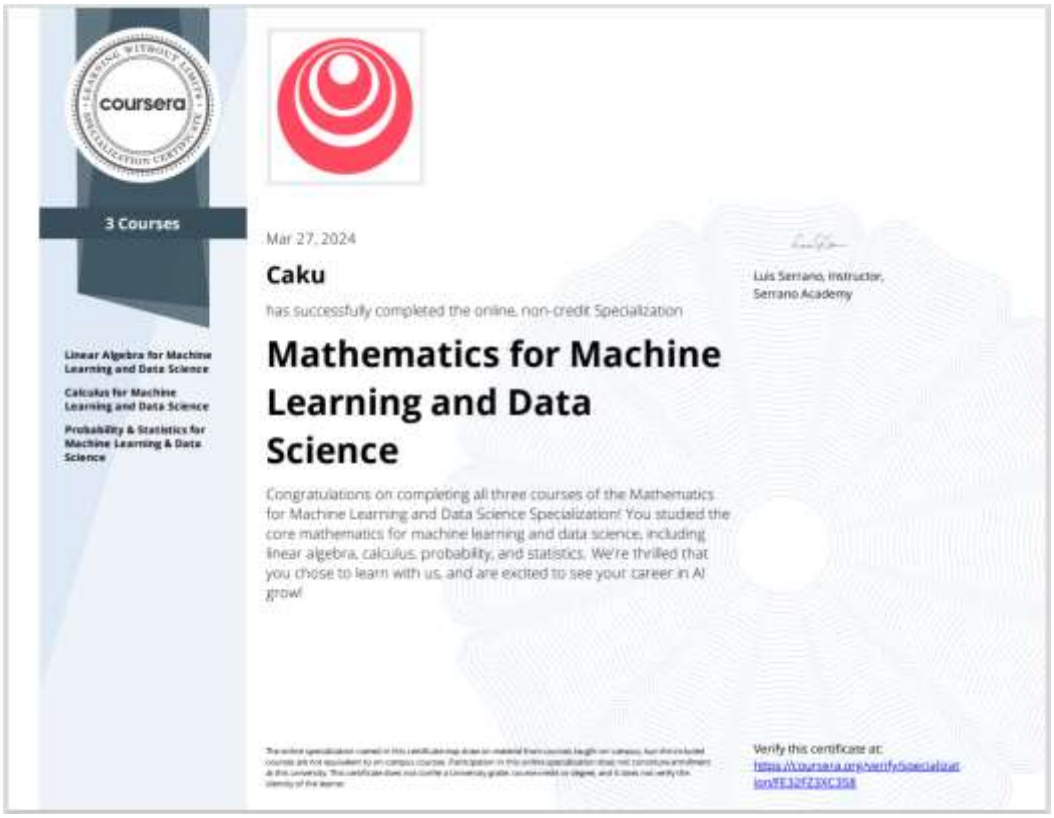
Regarding competency development, I have received comprehensive training in various areas, including soft skills, ILT techniques, and access to the program support system. The training has equipped me with essential skills and knowledge, contributing significantly to my professional and personal growth. The program's support system has been instrumental in ensuring that I stay on track and achieve my goals.

Overall, the mentoring, coordination, and training provided by the Mentor, DPP, and the program have been

Appendix 7. Dashboard Bangkit



Appendix 8. Certificates of Course Completion



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3 Courses

Linear Algebra for Machine Learning and Data Science

Calculus for Machine Learning and Data Science

Probability & Statistics for Machine Learning & Data Science

Mar 27, 2024

Caku

has successfully completed the online, non-credit Specialization

Mathematics for Machine Learning and Data Science

Congratulations on completing all three courses of the Mathematics for Machine Learning and Data Science Specialization! You studied the core mathematics for machine learning and data science, including linear algebra, calculus, probability, and statistics. We're thrilled that you chose to learn with us, and are excited to see your career in AI grow!

Luis Serrano, Instructor, Serrano Academy

Verify this certificate at: https://coursera.org/verify/specialization/FE32FZ3XC3S8

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3 Courses

Supervised Machine Learning: Regression and Classification

Advanced Learning Algorithms

Unsupervised Learning, Recommenders, Reinforcement Learning

Stanford University

Apr 16, 2024

Caku

has successfully completed the online, non-credit Specialization

Machine Learning

Congratulations on completing all three courses of the Machine Learning Specialization! You studied modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning (clustering, anomaly detection), recommender systems, and reinforcement learning. You learned some of the best practices for building machine learning models. You've also gained practical skills to apply machine learning techniques to challenging real-world problems. Now #BreakIntoAI and start building your career in machine learning!

Andrew Ng, Instructor, DeepLearning.AI

Verify this certificate at: https://coursera.org/verify/specialization/RDDWBYXL063D

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4 Courses

Browser-based Models with TensorFlow.js

Device-based Models with TensorFlow Lite

Data Pipelines with Tensorflow Data Services

Advanced Deployment Scenarios with TensorFlow

May 12, 2024

Caku

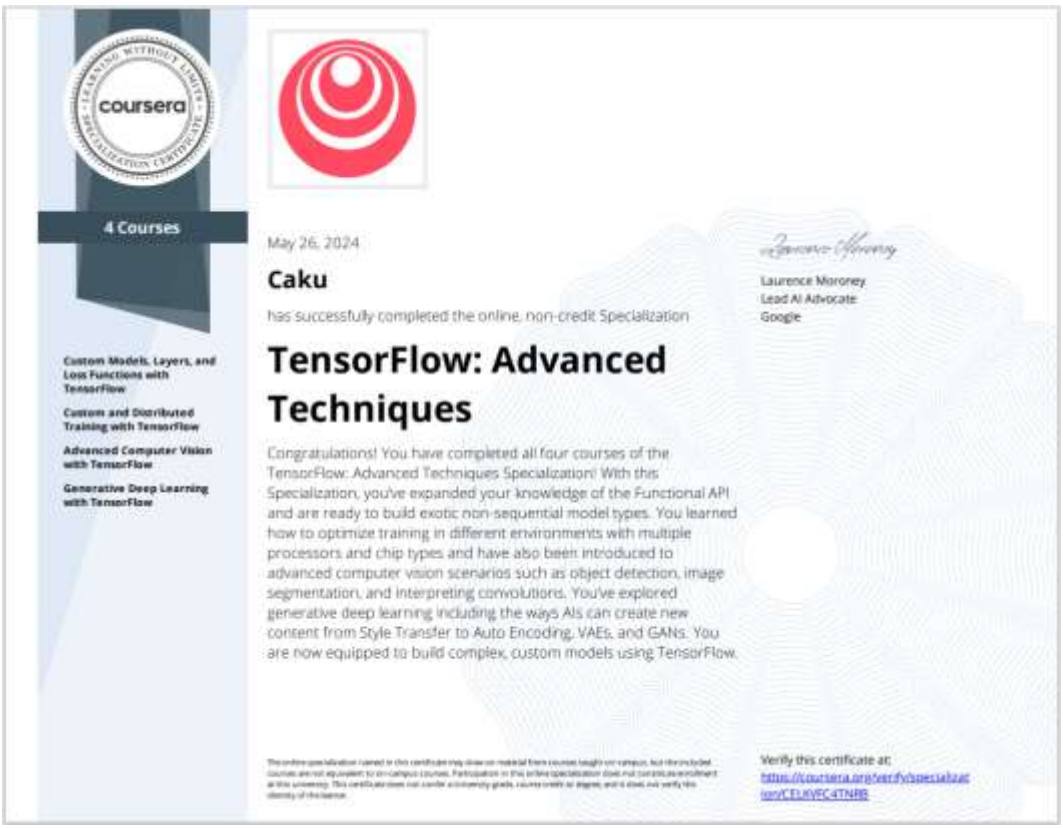
has successfully completed the online, non-credit Specialization

TensorFlow: Data and Deployment

In this specialization, you continued to develop your understanding of machine learning with TensorFlow. Data and Deployment. You have gone beyond basic modeling and learned how to train and run your models within a browser, optimize machine learning models for mobile devices, and create effective data pipelines with TensorFlow Data Services. Now that you've learned the various ways to deploy your models, you're well-prepared to take your models into the hands of real people on all kinds of devices!

Laurence Moroney
Lead AI Advocate at Google

Verify this certificate at: https://coursera.org/verify/specialization/UNDPH6PTZK87



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4 Courses

Custom Models, Layers, and Loss Functions with TensorFlow

Custom and Distributed Training with TensorFlow

Advanced Computer Vision with TensorFlow

Generative Deep Learning with TensorFlow

May 26, 2024

Caku

has successfully completed the online, non-credit Specialization

TensorFlow: Advanced Techniques

Congratulations! You have completed all four courses of the TensorFlow: Advanced Techniques Specialization! With this Specialization, you've expanded your knowledge of the Functional API and are ready to build exotic non-sequential model types. You learned how to optimize training in different environments with multiple processors and chip types and have also been introduced to advanced computer vision scenarios such as object detection, image segmentation, and interpreting convolutions. You've explored generative deep learning including the ways AIs can create new content from Style Transfer to Auto Encoding, VAEs, and GANs. You are now equipped to build complex, custom models using TensorFlow.

Laurence Moroney
Lead AI Advocate
Google

Verify this certificate at: https://coursera.org/verify/specialization/CEUKVFC4TNRB


Google
COURSE
CERTIFICATE
Caku
Introduction to Git and GitHub
coursera
Google


Google
COURSE
CERTIFICATE
Caku
Using Python to Interact with the Operating System
coursera
Google


Google
COURSE
CERTIFICATE
Feb 23, 2024
Caku
has successfully completed
Crash Course on Python
an online non-credit course authorized by Google and offered through Coursera
Google
Google
EDUCATION FOR EVERYONE
coursera
COURSE CERTIFICATE
Verify at:
https://coursera.org/verify/ECCMSPM8EISE
Coursera has confirmed the identity of this individual and their participation in the course.


Google
COURSE
CERTIFICATE
Mar 15, 2024
Caku
has successfully completed
Analyze Data to Answer Questions
an online non-credit course authorized by Google and offered through Coursera
Amanda Brophy
Amanda Brophy
Global Director of Google Career Certificates
EDUCATION FOR EVERYONE
coursera
COURSE CERTIFICATE
Verify at:
https://coursera.org/verify/8TPE25HP9SR6
Coursera has confirmed the identity of this individual and their participation in the course.

Google

COURSE CERTIFICATE

Mar 10, 2024

Caku

has successfully completed

Process Data from Dirty to Clean

an online non-credit course authorized by Google and offered through Coursera

Amanda Brophy
Global Director of Google Career Certificates

EDUCATION FOR EVERYONE
coursera
COURSE CERTIFICATE

Verify at:
https://coursera.org/verify/E5MOLZ1SD6H5

Coursera has confirmed the identity of this individual and their participation in the course.

Google

COURSE CERTIFICATE

Mar 15, 2024

Caku

has successfully completed

Share Data Through the Art of Visualization

an online non-credit course authorized by Google and offered through Coursera

Amanda Brophy
Global Director of Google Career Certificates

EDUCATION FOR EVERYONE
coursera
COURSE CERTIFICATE

Verify at:
https://coursera.org/verify/VFHTVUUHQD6G

Coursera has confirmed the identity of this individual and their participation in the course.

DeepLearning.AI

COURSE CERTIFICATE

Apr 29, 2024

Caku

has successfully completed

Structuring Machine Learning Projects

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Andrew Ng, Founder, DeepLearning.AI & Co-founder, Coursera

EDUCATION FOR EVERYONE · coursera · COURSE CERTIFICATE

Verify at:
https://coursera.org/verify/ZMYU38F3VZOT
Coursera has confirmed the identity of this individual and their participation in the course.

DeepLearning.AI

COURSE CERTIFICATE

May 15, 2024

Caku

has successfully completed

Generative AI for Everyone

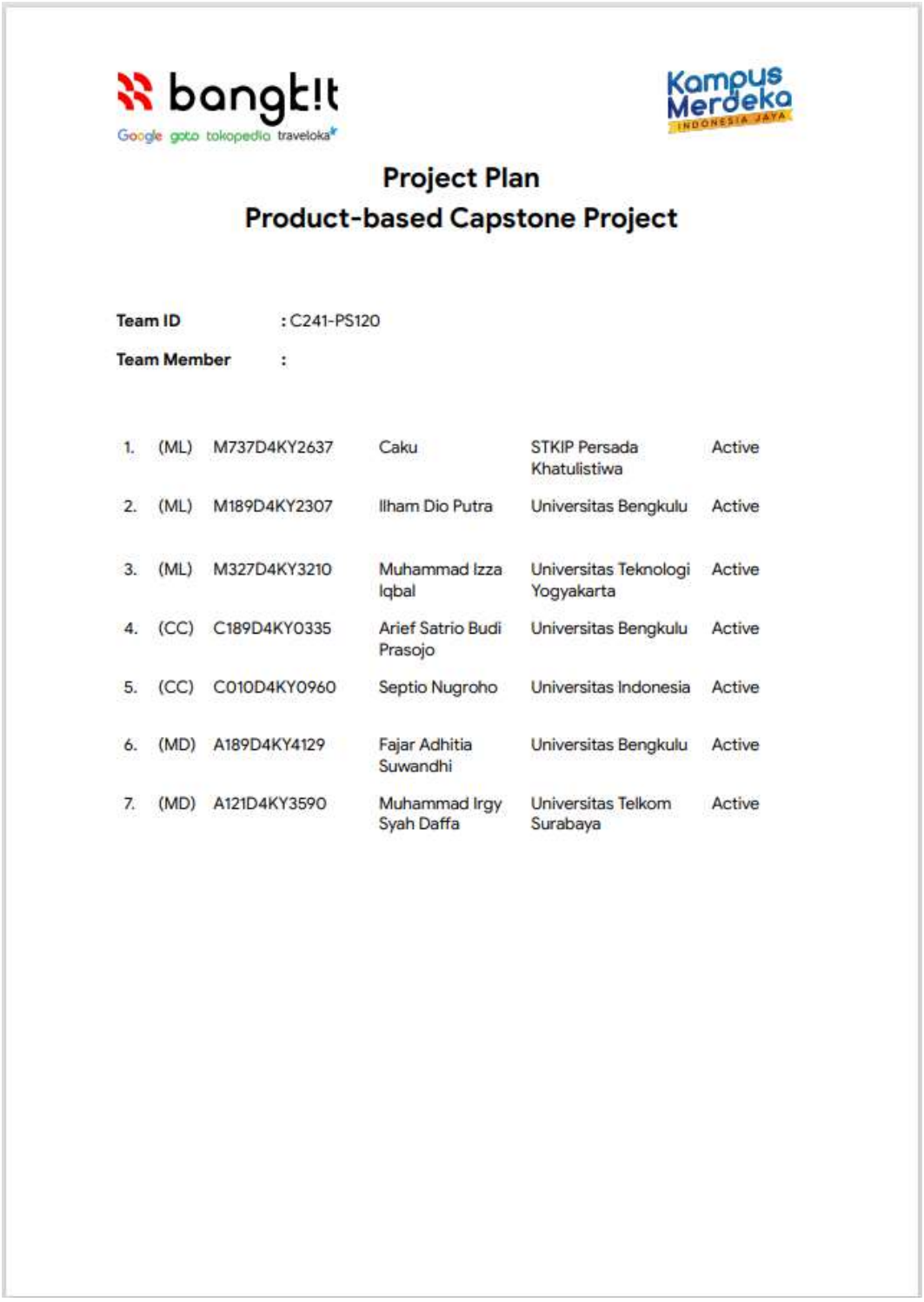
an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Andrew Ng
Founder, DeepLearning.AI
Co-founder, Coursera

EDUCATION FOR EVERYONE · coursera · COURSE CERTIFICATE

Verify at:
https://coursera.org/verify/2N3CZDBTH4XU
Coursera has confirmed the identity of this individual and their participation in the course.

Appendix 9. Project Plan



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Kampus Merdeka
INDONESIA JAYA

Project Plan
Product-based Capstone Project

Team ID : C241-PS120

Team Member :

1.	(ML)	M737D4KY2637	Caku	STKIP Persada Khatulistiwa	Active
2.	(ML)	M189D4KY2307	Ilham Dio Putra	Universitas Bengkulu	Active
3.	(ML)	M327D4KY3210	Muhammad Izza Iqbal	Universitas Teknologi Yogyakarta	Active
4.	(CC)	C189D4KY0335	Arief Satrio Budi Prasojo	Universitas Bengkulu	Active
5.	(CC)	C010D4KY0960	Septio Nugroho	Universitas Indonesia	Active
6.	(MD)	A189D4KY4129	Fajar Adhitia Suwandhi	Universitas Bengkulu	Active
7.	(MD)	A121D4KY3590	Muhammad Irgy Syah Daffa	Universitas Telkom Surabaya	Active

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Kampus Merdeka
INDONESIA JAYA

Project Plan
Product-based Capstone Project

Final Selected Themes:
Smart Agri-Fishery Solution: Agrotech and Fisheries Technology Integration

Title of the Project:
Coptas

Excecutive Summary/Abstract:
Indonesia is one of the world's largest coffee producers, yet coffee productivity in the country remains relatively low compared to other nations. This is partly due to diseases affecting coffee plants. Coptas is envisioned as an application to detect leaf diseases in coffee plants. This application is expected to assist coffee farmers in identifying leaf diseases, understanding treatment and prevention methods, and providing additional information about coffee plants.

Research Questions:

- How can we develop a mobile application that effectively detects leaf diseases in coffee plants in Indonesia?
- What features should the app include for disease detection, prevention, and comprehensive coffee plant information?
- How can we ensure that the app is user-friendly and accessible to coffee farmers, even those with limited technology access and knowledge?

We will develop a mobile app to aid coffee farmers in Indonesia. It will offer them comprehensive tools and information to identify and manage leaf diseases in coffee plants effectively. By empowering coffee farmers with these resources, we aim to enhance productivity, increase income, and foster sustainable growth in Indonesia's coffee industry.

How did your team come up with this project?
Our team initiated this project after recognizing the substantial challenges confronting coffee farmers in Indonesia. They struggle with issues like diseases harming their crops, leading to low productivity. To address these problems, we came up with the idea of creating a simple phone app. This app would focus on identifying diseases in coffee plants. It will provide farmers with the information and tools they need to recognize, treat, and prevent these diseases. Our main goal is to increase productivity, income, and sustainability in Indonesia's coffee industry.

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Kampus Merdeka
INDONESIA JAYA

Project Plan
Product-based Capstone Project

Project Scope & Deliverables:

Week	Path	Task	Deliverables
Week 1	Android	Create user flow and design system	Application user flow and design identity for application
		Wireframing	UI/UX design for application
	Machine Learning	Gather some Coffle Leaf Disease images dataset	Dataset
		Preprocessing Dataset	Dataset
	Cloud Computing	Create Cloud Architecture Design and Preparation	Cloud infrastructure
Week 2	Android	Slicing UI	Implementing UI/UX in Android Studio
		Prototyping	Prototype, UI components
	Machine Learning	Build the ML model and train the dataset to the ML model	Trained model, Evaluation report
	Cloud Computing	Create Database Schema Design and Preparation	Database schema
		Creating a development Back-end Server	Consumable API
		Creating Admin Authentication	Login API

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Kampus Merdeka
INDONESIA JAYA

Project Plan
Product-based Capstone Project

Week 3	Android	Develop User View	Create User View
		Implementing API	Implementing API in Android
	Machine Learning	Evaluating Model	Monitoring report and evaluation plan
	Cloud Computing	Develop Web Admin	Stable Web for Admin
		Creating dummy disease detection on coffee leaf	Model API with dummy data in return
Week 4	Android	Integrating disease detection with the server	Stable, well-tested app, bug reports, and fixes
	Machine Learning	Deploy Model	Deployed model
		Upgrade machine learning model performance	Deployed machine learning model
	Cloud Computing	Testing the Rest-API	Stable and well-tested API
Week 5	Android	Animate UI	Animating UI for user
		Testing Application	Testing and debugging application
		Build	Deployed Android Application
	Machine Learning Cloud Computing	Create documentation and preparing for product presentation	Documentation

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Kampus Merdeka
INDONESIA JAYA

Project Plan
Product-based Capstone Project

	Cloud Computing	Deploy production server	A complete functional Server for Mobile

Project Schedule:

Based on your team's knowledge, what tools/IDE/Library and resources that your team will use to solve the problem?

Mobile Development:

- Android Studio (Official IDE for Android development)
- Figma (UI Design Software)
- Github (Store and Collaborating Software)
- Retrofit (HTTP communication library)
- RoboPOJOGenerator (Generate Plugin from POJO to GSON)
- Room (Local Database Library)
- TensorFlow Lite (Provide API for Deploying Model)
- Glide(Image Load Library)

Cloud Computing:

- Cloud storage (Object Storage for storing images)
- Cloud run (serverless to run docker container apps)

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Kampus Merdeka
INDONESIA JAYA

Project Plan
Product-based Capstone Project

- Docker (for containerizing back-end services)
- Cloud IAM (for managing cloud users)
- Cloud SQL (database)
- Visual Studio Code (Text editor for code the app)
- Go (Programming language to create back-end service)
- GoFiber (Framework to create REST API)
- Python (Programming language to create API from ML model)
- Flask (to create API from the created model)
- Postman (testing the API)
- JSON Web Token (Authentication tokens for users security)

Machine Learning:

- **IDE & Text Editor:**
  1. Visual Studio Code
  2. Google Colaboratory
- **Library:**
  1. Tensorflow (Open-Source machine learning framework for defining, training, and evaluating various types of models, including neural networks and decision trees)
  2. Tensorflow Lite
  3. Keras (High-level interface for building and training neural networks models)
  4. Numpy (Fundamental library that is used for efficient array manipulation and math operations)
  5. Pandas (for data manipulation and analysis)
  6. Matplotlib (for data visualization)
- **Resource:**
  1. Kaggle (platform to get coffee leaf dataset)

Based on your knowledge and explorations, what will your team need support for?

- Mentoring for Business and Management side
- Mentoring for creating REST API and choosing the right infrastructure on the Google Cloud Platform
- UI/UX References

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Kampus Merdeka
INDONESIA JAYA

Project Plan
Product-based Capstone Project

Based on your knowledge and explorations, tell us the Machine Learning Part of your Capstone!

The machine learning component of our app will focus on coffee leaf disease classification using deep learning techniques, specifically CNN. To enhance our accuracy, we may also employ transfer learning from existing models such as Inception V4 or MobileNetV2. For model deployment, we plan to use TensorFlow Lite.

Based on your knowledge and explorations, tell us the Mobile Development Part of your capstone?

UI/UX design will be developed in Figma, while the Android application will be built using Kotlin in Android Studio. The application will use the MVVM architectural pattern and will be integrated with the API.

Based on your knowledge and explorations, tell us the Cloud/Web/Frontend/Backend Part of your capstone?

We are planning to implement an API server using Golang, Flask for the model server, MySQL for the database and GCP to deploy apps. We also use Cloud Storage to save images to be displayed on the mobile and use Google Auth for user authentication to access API.

Based on your team's planning, is there any identifiable potential Risk or Issue related to your project?

Machine learning models must be tested and validated to avoid biases that can negatively impact farmers. The application's accuracy and reliability are essential as farmers rely heavily on accurate information to make decisions. Poor network connectivity can affect the functionality of the application, and the user experience must be user-friendly and easy to navigate. As the user base grows, scalability is necessary.

Any other notes/remarks we should consider on your team's application

-

Appendix 10. Advisors

bangkit

Dear **C241-PS120** Team,

We are excited to announce the assignment of advisors for your capstone projects. These advisors will play a crucial role in guiding and supporting your team throughout this capstone journey. Here are the details of your assigned advisors:

Advisor ID	Name of Advisor	Expertise	Email Address
CC24-0253	Warham	Cloud Computing	warhamhayat@gmail.com
B24-0453	Constantine Dylan	Business/Commerce/Ideation	dylansugito@gmail.com

Important Instructions:

- **Contact your Advisor** 👩‍💻
  Please contact your assigned advisor immediately via email to initiate the mentoring process *(Introduce your team first and ask the advisor's time availability politely)*.
  If you do not receive a response from your advisor within 2 days (working hours), please report the situation by filling out the **Inactive Advisor Report Form**. 📌
- **Complete your mentoring logbook**
  Before conducting the mentoring sessions with your Advisor, please ensure you have filled out the mentoring logbook. You can find the mentoring logbook through your team's master sheet or by clicking the following link: **Mentoring Logbook**
- **Fill in the Mentoring Feedback Form** ✍️
  After completing the mentoring sessions, the capstone team must fill out the **Mentoring Feedback Form** to provide constructive feedback on your mentoring experience.

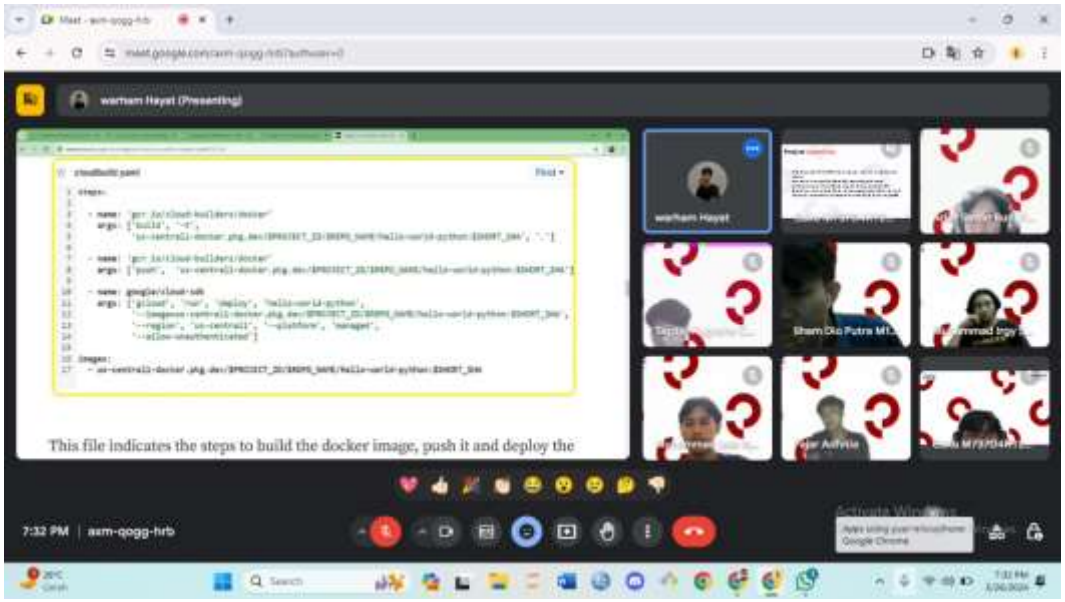
We wish you a successful Capstone experience and productive collaboration with your assigned advisors. Please feel free to contact us if you have any questions.

Thank you and Good Luck! ✨

Best Regards,

Bangkit Team

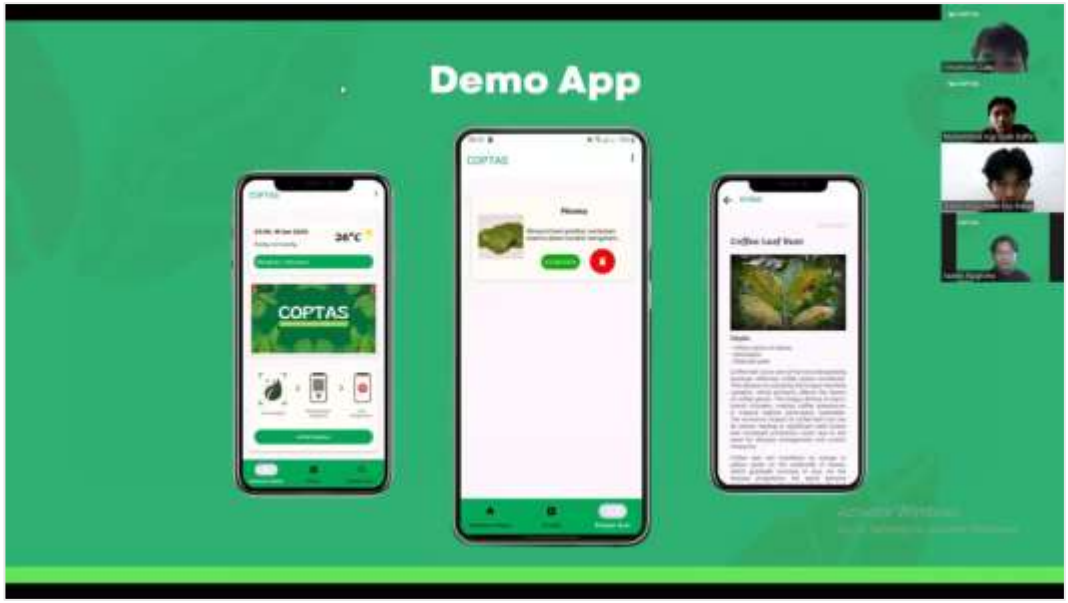
Appendix 11. Meeting with Cloud Computing Advisor



Appendix 12. Meeting with Business Advisor

Appendix 13. Meeting with Team

Appendix 14. Presentation and Peer Review Session



Appendix 15. Team's Final Capstone Project Grades

bangkit

Dear **C241-PS120,**

Hope this email finds you well ✨
It has been an exciting journey to witness your dedication, teamwork, and perseverance throughout the project. **This email serves as a notification of your Team's Final Capstone Project Grades.**

Your completion capstone project status: **Finished**

Please find the detailed breakdown of your project's score below:

Aspect	Project Plan Document	Peer Review Presentation	Project Brief Document	Final Project Score
Your team's score	88	88	84	**86.21**

And also find your individual team member status below:

Student ID	Name	Status*
M189D4KY2307	Ilham Dio Putra	Active
M327D4KY3210	Muhammad Izza Iqbal	Active
M737D4KY2637	Caku	Active
C189D4KY0335	Arief Satrio Budi Prasojo	Active
C010D4KY0960	Septio Nugroho	Active
A189D4KY4129	Fajar Adhitia Suwandhi	Active
A121D4KY3590	Muhammad Irgy Syah Daffa	Active

**Status of each team member was determined based on their contributions reported by the project plan, project brief, and inactive member report form.*

Appendix 16. Graduation Letter

bangkit

Jakarta, July 10th, 2024

To whom it may concern

This letter is to certify that the following student has successfully participated in Bangkit 2024 Batch 1, and therefore **Graduated** from Bangkit 2024, a Google-led program in collaboration with GoTo, Tokopedia, and Traveloka in **Machine Learning** learning path:

Name	: Caku
Student ID (Origin University)	: 200407124
University	: STKIP Persada Khatulistiwa
Study Program	: Pendidikan Bahasa Inggris
Supervisor	: Sijono, M.Pd
Bangkit ID	: M737D4KY2637
Program Period	: 16 February 2024 - 30 June 2024

Bangkit is an approved Kampus Merdeka - Study Independent program fully supported by the Ministry of Education, Culture, Research, and Technology - Republic of Indonesia. This industry-led, interdisciplinary, and immersive program is designed to produce high-caliber technical talents for world-class Indonesian technology companies and startups.

In this even semester 4,650 students from 327 universities across Indonesia were selected from more than 57,000 registrants to join Bangkit. They learned to improve their technical skills, soft skills, and English competencies to help them get better employability in their future careers in the technology industry.

Sincerely,

bangkit

Mutiara Arumsari
Bangkit ID Program Manager

Appendix 17. English Test Result.

TBI
The British Institute
TBI-DAGO/CORP/8759

bangkit
Google gojo traveloka

This is to certify that

Caku

has completed a short course of **4.5** hours
entitled

English for Business Communication

and achieved an overall score of **72%**

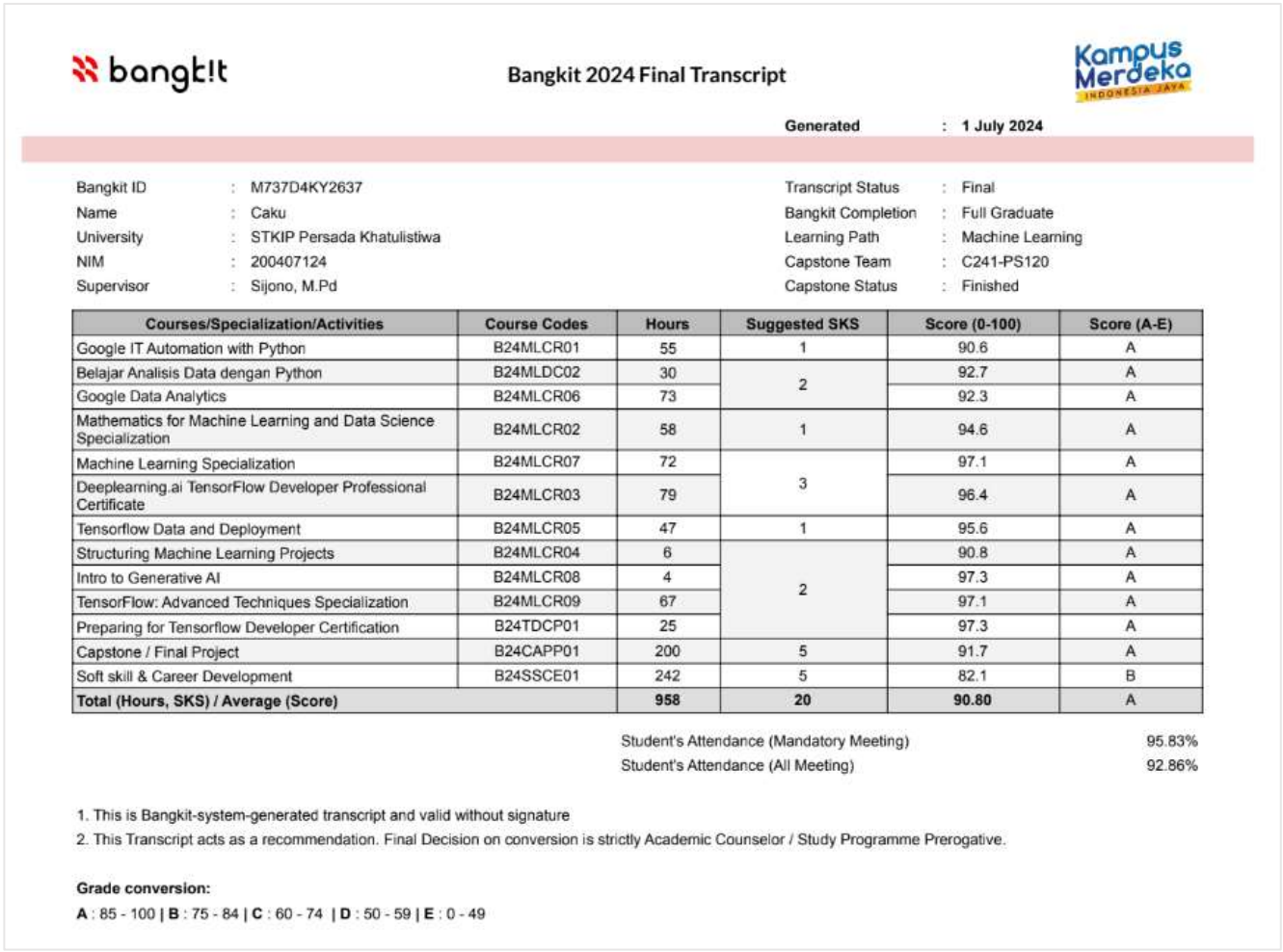
12 July 2024

TBI

Seira Raswarrach, S.S., M.B.A.
School Manager TBI Bandung

Appendix 18. Certificate of Graduation from Bangkit Academy

Appendix 19. Transcript of Grades From The Bangkit Academy Program



bangkit

Bangkit 2024 Final Transcript

Kampus Merdeka INDONESIA JAYA

Generated : 1 July 2024

Bangkit ID	: M737D4KY2637	Transcript Status	: Final
Name	: Caku	Bangkit Completion	: Full Graduate
University	: STKIP Persada Khatulistiwa	Learning Path	: Machine Learning
NIM	: 200407124	Capstone Team	: C241-PS120
Supervisor	: Sijono, M.Pd	Capstone Status	: Finished

Courses/Specialization/Activities	Course Codes	Hours	Suggested SKS	Score (0-100)	Score (A-E)
Google IT Automation with Python	B24MLCR01	55	1	90.6	A
Belajar Analisis Data dengan Python	B24MLDC02	30	2	92.7	A
Google Data Analytics	B24MLCR06	73		92.3	A
Mathematics for Machine Learning and Data Science Specialization	B24MLCR02	58	1	94.6	A
Machine Learning Specialization	B24MLCR07	72	3	97.1	A
Deeplearning.ai TensorFlow Developer Professional Certificate	B24MLCR03	79		96.4	A
Tensorflow Data and Deployment	B24MLCR05	47	1	95.6	A
Structuring Machine Learning Projects	B24MLCR04	6	2	90.8	A
Intro to Generative AI	B24MLCR08	4		97.3	A
TensorFlow: Advanced Techniques Specialization	B24MLCR09	67		97.1	A
Preparing for Tensorflow Developer Certification	B24TDCP01	25		97.3	A
Capstone / Final Project	B24CAPP01	200	5	91.7	A
Soft skill & Career Development	B24SSCE01	242	5	82.1	B
Total (Hours, SKS) / Average (Score)		**958**	**20**	**90.80**	A

Student's Attendance (Mandatory Meeting)	95.83%
Student's Attendance (All Meeting)	92.86%

1. This is Bangkit-system-generated transcript and valid without signature
2. This Transcript acts as a recommendation. Final Decision on conversion is strictly Academic Counselor / Study Programme Prerogative.

Grade conversion:

A : 85 - 100 | **B** : 75 - 84 | **C** : 60 - 74 | **D** : 50 - 59 | **E** : 0 - 49

Appendix 20. Certificate of Participation in the 6th MSIB

SERTIFIKAT KEPESERTAAN

diberikan oleh **Pelaksana Pusat Kampus Merdeka** kepada

CAKU

NIM: 200407124 / ID KEGIATAN: 7674437

atas partisipasinya sebagai peserta dan telah menyelesaikan kewajibannya dalam program

Studi Independen Bersertifikat Angkatan 6

di

PT Dicoding Akademi Indonesia

Ketua Pelaksana Kampus Merdeka

Drs. Gugup Kismono, M.B.A., Ph.D.
NIP 19637051989111001

BIOGRAPHY

Caku, the 8th of 10 children born to Mr. Paulus Aban and Mrs. Margarita Awi, was born on April 20, 2002 in PB. Penai, Silat Hilir District, Putussibau Regency. He has completed his elementary education at SDN 05 PB. Penai from 2010 to 2015. proceeded to SMPN 06 Silat Hilir from 2015 to 2017, and later attended SMA Nusantara Indah Sintang from 2017 to 2020. In 2020, he pursued higher education at STKIP Persada Khatulistiwa Sintang, enrolling in the English Language Education study program. While at STKIP Persada Khatulistiwa Sintang, he actively engaged in a variety of activities such as UKM Seni, KMK, HMPS, Lecturer Project, SIB Data Science Program at Startup Campus, and SIB Machine Learning at Bangkit Academy. In the Student Association of English Language Education (HMPS) membership, he held the position of Social Network and Development for three terms. As part of the Independent Study Program in Data Science, he undertook time series projects and created a machine learning-based application for detecting coffee leaf disease.