Daffa Maulana Haekal

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I am a final year dedicated Computer Science student at the University of Indonesia, deeply passionate about the intersection of Artificial Intelligence, Software Engineering, and Data Science. My academic journey has equipped me with a solid foundation in both theoretical and practical aspects of technology includes Machine Learning, Deep Learning, Data Science, Web development (Backend and Frontend), and Data Analyst. In another hand my extracurricular involvement has honed my Leadership, Team Development, and Strategic Communication Skills.

Education

Universitas Indonesia – Depok, Indonesia
Bachelor Degree in Computer Science
Undergraduate in Faculty of Computer Science (Fasilkom) for Computer Science major (GPA : 3.33)   August 2021- Present

Professional Experience

Software Engineer Intern in PT Telekomunikasi Seluler (Telkomsel) – Jakarta Selatan, Indonesia   **October 2024 – December 2024**
- Build flow of process and business requirement proposal for restructuring E2E Architecture using Microsoft Visio to help finance policy division
- Build internal tools website for calculating over usage recon to help prepaid finance division using Django Rest Framework + HTML CSS, Succeed to decrease time calculate recon until 85% of manual calculation time
- Build and Manage Database in postgresql and MySQL for fixed asset to help asset capitalization division using HeidiSQL Tools
- Enhance UI/UX internal website design for All Finance Division using figma
- Create report and analysis presentation of finance data using Microsoft Power BI

Other Education & Online Courses Experience

Bangkit Academy led by Google, Tokopedia, Gojek & Traveloka – Machine Learning Path – Depok, Indonesia
Being one of cohort in machine learning path   February 2024 – July 2024
- Gain knowledge for data analyst, data science, and machine learning from best mentor and teacher
- Become 1/210 cohort that approved to join capstone entrepreneur track from 500+ applicant

Bundle DeepLearning.AI Tensorflow Developer by Deep Learning AI– Coursera   April 2024 – May 2024
- Complete Introduction to Tensorflow for Artificial Intelligence, Machine Learning, And Deep Learning Course
- Complete Convolutional Neural Networks in Tensorflow Course
- Complete Natural language Processing in Tensorflow Course
- Complete Sequences, Time Series, and Prediction Course

Dev Certified for Machine Learning with Tensorflow– dev.id   February 2024 – July 2024
- Passed all examinations that consist of multiple choice and practical exam

Machine Learning Operation (MLOps) Course – Dicoding   October 2024 – November 2024
- Learn machine learning pipeline using TFX (Tensorflow Extended) and build machine learning system operation

Project Experience

Develop Chatbot using Deepseek R-1 in MERN Tech Stack– Depok, Indonesia   February 2025 – Present
Resource: https://github.com/dapulmh/chatpul-local

Developing chatbot web application using express js (backend), next ts (frontend), and mongodb (database) for personal project
- Create all backend functionality using express javascript
- Create frontend for chatbot design using next typescript
- Use Deepseek R-1 from ollama for the LLM of chatbot with personal prompt

Create Rental Baby Tools App Called Momee.id for Bangkit Capstone Project – Depok, Indonesia   May 2024 – July 2024
Resource: https://github.com/Bangkit-Capstone-2024

Project for Bangkit Entrepreneur Track to create sustainable business and application.
- Create model with my colleague to classification baby tools by image
- Create website for promotion
- Help Cloud Computing cohort to deploy model and API backend

Create Website for Teaching Assistant Management For PPL Course Assignment – Depok, Indonesia   January 2024 – June 2024

Resource: https://drive.google.com/file/d/10PU1XVwli-LAulEBWqm5Dn7_BihIOeGF/view?usp=sharing

Create Website with my colleague called Siasisten for teaching assistant management for Computer Science Faculty especially Magister Degree
- Integrating Siasisten Reborn for Magister degree requirement
- Creating feature for Penalty Management System
- Creating feature for Payment Management System
- Become Scrum Master for the whole development timeline

Build Model and Simple Website for Predicting US Salary – Depok, Indonesia   December 2023 – January 2024

Resource: https://github.com/dapulmh/Project-Salary-Prediction

My personal project to know how to integrate my own machine learning model and simple website using streamlit
- Create simple user interface website using streamlit framework
- Create Regression Model to predict US Salary
- Integrating machine learning model and website

Create Website for Personal Portfolio – Depok, Indonesia   December 2024 – Present

Resource: https://github.com/dapulmh/web-portfolio-daffa

My personal project to build my own website for personal portfolio and personal branding.
- Create landing page for website
- Create project section

Develop Web in Flutter and Django for Web Development Courses Assignment – Depok, Indonesia
Resource: https://github.com/YosuaChrialMartono/C06-PTS-PBP , https://github.com/YosuaChrialMartono/C06-PAS-PBP
Developing web in flutter and Django for wall of hope features   September 2022 – December 2022
- Responsible for wall of hope features in website
- Create CRD (create, read, and delete) in wall of hope features
- Create user interface (UI) for wall of hope features

Develop Web in Spring Boot Java for Advanced Programming Courses Assignment – Depok, Indonesia   January 2023 – June 2023
Developing web in spring boot java for admin microservice
- Responsible for Admin Microservice
- Deploy Admin Microservice using gitlab cs and google cloud platform
- Develop many features for admin microservice and main microservice

Organizational & Professional Experience

Pemira Fasilkom UI – Depok, Indonesia
VPIC Campaign in Pemira Fasilkom UI in Computer Science Faculty   November 2022 – January 2023
- Supervised with my PIC to look after campaign activities in Pemira Fasilkom UI
- Organize other staff to do their task for Pemira Fasilkom UI
- Create 4 big event for Pemira Fasilkom UI

BEM Fasilkom UI – Depok, Indonesia   March 2022 – December 2022
Staff in Kastrat BEM Fasilkom UI
- Supervised in one of event for Kastrat BEM Fasilkom UI
- Participate in Kastrat Bem Fasilkom UI project
- Achieving best staff award for Kastrat Bem Fasilkom UI

COMPFEST 2023 – Depok, Indonesia
Expert staff in Indie Game Ignite COMPFEST 2023 (game development competition)   March 2023 – October 2023
- Help PIC and VPIC to organize and give advice for Indie Game Ignite COMPFEST 2023
- Help other staff to do their task for Indie Game Ignite COMPFEST 2023
- Supervised in one of technical meeting for Indie Game Ignite COMPFEST 2023

Skills, Interests, & Others

Language: Fluent to speak and writing in English.
Programming Language: Python, Java, Javascript, HTML, SQL, CSS, R, Golang, C, C++, C#, Kotlin, Dart, Typescript, Visual Basic, PHP
Databases: MySQL, PostgreSQ, Mongodb, Nosql
Cloud: Docker, Github, Google Cloud Platform, Amazon Web Service (AWS)
Web Framework: Django, React, Flutter, Django Rest API, Express, Next, React Vite, Springboot
Machine Learning & AIFramework: Keras, Tensorflow, Scikit-learn, Pandas, Numpy, CV2, Pytorch, Flask, Matplotlib, Spacy, AI studios, ollama, RAG, Langflow, Langchain
Soft Skills: Critical Thinking, Problem Solving, Analytical Skills, Mathematical Skills, Project Management, Leadership, Communication Skills, Computational Thinking
Hard Skills: Microsoft Word, Microsoft Power Point , Microsoft Excel, Figma, Canva, Power BI, Tableu, Microsoft Visio, Microsoft Project, Jira