NAUFAL HADI DARMAWAN

+62 85-15606-8179 | hadinaufal06@gmail.com | linkedin.com/in/naufalhd12/ | Portfolio Web | Bandung

Software & AI Engineer with experience building end-to-end web applications and deploying AI-driven solutions. Proficient in Python, JavaScript, React, Django, FastAPI, and AWS, with strong knowledge of machine learning and deep learning frameworks such as TensorFlow and Scikit-Learn. Experienced in designing, training, and deploying models, as well as integrating LLMs into production systems. Passionate about combining software engineering and AI to deliver scalable, reliable, and impactful applications.

Education

UNIVERSITAS PENDIDIKAN INDONESIA (2022 - Present)
Software Engineering | GPA 3.81

Skills & Interests

Software : Python, Scikit-Learn, Tensorflow, Flask, FastAPI, Django, JavaScript, NodeJS, HapiJS, ASP.NET, AlpineJS, ReactJS, HTMX, Tailwind, Git, SQL, Docker, SDLC, Amazon Web Services (AWS), Prometheus, Grafana

Certifications : Machine Learning by Stanford University & DeepLearning.AI, DeepLearning.AI Tensorflow Developer, Tensorflow: Data and Deployment by DeepLearning.AI, Applied Machine Learning by Dicoding, Machine Learning Operations by Dicoding, Bangkit Academy 2024 led by Google, Tokopedia, Gojek, and Traveloka Machine Learning Path, Web Application Development with React by Dicoding, Back-End Development with JavaScript by Dicoding, Cloud and Gen AI on AWS by Dicoding, Asah - React & Backend with AI by Dicoding & Accenture, Full Stack Web Development with Django 5, TailwindCSS, HTMX by Jose Salvatierra, Software Architecture & Design of Modern Large Scale Systems by Michael Pogrebinsky

Languages : English (Intermediate), Japanese (N3), Indonesian (Native)

Work Experience

Software Engineer Intern – PT Kilang Pertamina Internasional
February 2025 – May 2025 | Hybrid
- Developed an AI-powered data entry automation system using a Retrieval-Augmented Generation (RAG) architecture with an LLM (GPT-40-mini), LangChain, and Streamlit to extract information from PDFs, significantly improving data logging efficiency.
- Designed and built a full-stack web application (PSPV Register) from the ground up using ASP.NET Core MVC, Entity Framework, and SQL Server to manage and centralize the equipment deactivation registration process within the refinery.
- Executed the complete software development lifecycle, from requirements analysis, system architecture design, and feature implementation to testing, ensuring both applications met operational needs.

Data Scientist Intern – Home Credit Indonesia
February 2025 – March 2025 | Remote
- Developed and evaluated credit scoring models using Scikit-Learn and various machine learning algorithms (Random Forest, XGBoost, LightGBM) to predict loan repayment likelihood, achieving up to 96% accuracy and F1-score with the final Random Forest model.
- Executed an end-to-end data science workflow, including data preprocessing, feature engineering, feature selection (Mutual Information), and handling class imbalance with SMOTE to optimize model performance.
- Conducted Exploratory Data Analysis (EDA) to identify key factors influencing credit risk and provided strategic business recommendations to enhance the loan approval process.

Projects

Persona Nexus: AI-Powered Community Platform
- Architected and developed the full-stack web application from scratch using a modern monolithic architecture with Django, HTMX, and Alpine.js to create a dynamic and interactive community platform.
- Implemented comprehensive social features, including a full authentication system (Google/Discord social login), dynamic content feeds, real-time voting and notifications, and a private direct messaging system.
- Integrated AI functionality using the DeepSeek API for an AI Writing Assistant and automated content moderation, which proactively flags inappropriate text for review.
- Built a custom admin dashboard with complete moderation tools, content management (CRUD), and analytics visualization using Chart.js to monitor user growth and content activity.
- Managed the entire deployment and DevOps lifecycle, including server configuration on AWS EC2, containerization with Docker, and implementing a CI/CD pipeline using GitHub Actions.

AcneScan: Acne Detection App
- Designed and trained a CNN image classification model (TensorFlow, EfficientNetB0) to detect 5 types of acne, achieving a 98% F1-score on the test set.
- Built a predictive API with Flask and deployed it on Google Cloud Platform (Cloud Run) to serve machine learning inferences scalably.
- Collaborated with Mobile Development and Cloud Computing teams for end-to-end integration, including converting the final artifact to TensorFlow Lite for the Android application.

Synapsis AI: Smart CV Screening System
- Engineered an intelligent screening system to revolutionize recruitment by analyzing job descriptions against dozens of CVs simultaneously, supporting both English and Indonesian languages.
- Developed a multi-language NLP pipeline leveraging the DeepSeek-V3-0324 to generate matching scores, candidate strength/weakness highlights, and in-depth analysis.
- Implemented a robust backend with Python and Flask, featuring batch PDF processing with PyMuPDF and professional, downloadable Excel report generation using Pandas.