Danang Hapis Fadillah

Web Developer & Machine Learning Engineer

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SUMMARY

A highly motivated AI professional with comprehensive expertise in machine learning technologies, supported by advanced training from the prestigious **Machine Learning Cohort at Bangkit Academy (Batch 2) - a collaborative program led by industry titans Google, Tokopedia, Gojek, and Traveloka.** Demonstrates strong capabilities in developing and deploying advanced machine learning models across diverse technological domains, with specialized proficiencies in predictive modeling, natural language processing, and generative AI technologies. Skilled in cutting-edge frameworks including TensorFlow, PyTorch, and Transformers, this professional is passionate about translating complex AI technologies into practical, scalable solutions.

EDUCATION

Universitas Indraprasta PGRI - Jakarta Timur

Informatics Engineering - **GPA** 3.54 / 4.00
- Data Structures & Algorithms: Implemented efficient data organization and problem-solving techniques
- Data Mining: Analyzed large datasets to extract meaningful patterns and insights
- Database Management Systems (MySQL)
- Object-Oriented Programming using Java
- Software Engineering Principles
- Web Development

SKILL

- **Machine Learning**: TensorFlow, PyTorch, Scikit-learn, XGBoost, Regression, Classification, Clustering, Basic Natural Language Processing (NLP)
- **Deep Learning**: Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Long Short-Term Memory (LSTM), Generative Adversarial Networks (GANs)
- **Programming Languages**: Python, JavaScript, Typescript
- **Web Development**: Next.js, TailwindCSS, Firebase

EXPERIENCES & PROJECTS

1. **Machine Learning Engineer at Capstone Project | InterSim**   **Nov 2024 - Des 2024**
    - Conducted data scraping using Automa to collect job descriptions and resumes for training datasets.
    - Cleaned and preprocessed data to ensure compatibility for embedding and model training.
    - Implemented BERT embeddings to compute similarity between job descriptions and candidate profiles.
    - Fine-tuned the LLaMA-3.2-8B model using Alpaca format, achieving a training loss of 0.22 after 60 epochs.
    - Developed RESTful APIs using FastAPI to support cloud-based backend services.
    - Deployed the fine-tuned model on HuggingFace and containerized it using Docker for deployment on Google Cloud Run.

    Technologies: PyTorch, HuggingFace, FastAPI, Docker, Firebase, Google Cloud.

2. **Machine Learning Cohort at Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka (Batch 2)**   **Sep 2024 - Jan 2024**

   My AI journey intensified at Bangkit Academy, where I built a strong foundation in machine learning. Starting with mathematical fundamentals crucial for ML – linear algebra, calculus, and statistics – I progressed through core machine learning algorithms and their real-world applications. The program deepened into neural networks and deep learning, culminating in exploring cutting-edge generative AI technologies. This comprehensive training, backed by tech industry leaders, transformed my theoretical knowledge into practical AI development skills. Honed soft skills such as time management, energy management, growth mindset, communication, and teamwork through dedicated workshops and practical application.

3. **Personal Project | HLab AI**   **Aug 2024 - Sep 2024**

   Developed a Next.js application (HLab) integrating Gemini for features like paper summarization, product description generation, lecture summarization, and CV roasting.

   [Github](#) | [live demo](#)

4. **Ristek Datathon UI**   **Aug 2023**

   Developed a traffic congestion prediction model for London using XGBoost, achieving 43rd place out of 88 competing teams.

   [My work](#)

5. **GEMASTIK 2024 (Data Mining)**   **June 2024**

   Performed sentiment analysis on Google Play Store reviews for the Mobile Bea Cukai app using IndoBERT. Conducted n-gram analysis, identifying "applikasi tolol" as the most frequent phrase, providing valuable insights for app improvement.

   [My journal](#) | [code](#)

CERTIFICATES

- [Certificate of Completion Bangkit Program](#)
- [Machine Learning Specialization](#)
- [Mathematics for Machine Learning and Data Science](#)
- [Tensorflow Developer](#)
- [RISTEK Datathon UI 2023](#)