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SUMMARY

5th Semester Computer Science student (3.71 GPA) Specializing in data science, data analytics, ML engineer, AI engineer. Currently Building an e-commerce recommendation system on the 500K-row UCI Online Retail II dataset, using Parquet data and processing with Polars. Built a chord classifier CNN, using self-recorded 1,000+ samples recorded in 2 months, achieving 70% accuracy with ~1-second latency. Reached quarter finals on Samsung Innovation Campus competition, and winner of CodeFest ICP national-level hackathon.

EXPERIENCE

2nd Place Hackathon Winner

MLOps, LLM Engineer

- Won 2nd place and a 6 Million IDR prize in the Codefest.id national-level hackathon.
- Integrated an LLM API to power the web app's core chatbot tutor feature.
- Implemented Web3 user-specific wallets for decentralized, on-chain storage of notes and documents.

Codefest.id Hackathon 14

May 2025 - June 2025

Quarter-Finalist at Samsung Competition

ML Engineer, Team Coordinator

- Contributed to training a high-accuracy CNN model on a 15k-image dataset, enabling low-latency, real-time classification of trash (organic, plastic, other) for an IoT system.
- Increased model accuracy by 30% by web-crawling and augmenting a custom image dataset.
- Created a Flask API to wrap the custom CNN model, enabling it to receive real-time ESP32 image inputs, routing live predictions to MongoDB, a Ubidots dashboard, and the ESP32's servo for sorting.

Samsung Innovation Campus (SIC)

Dec 2024 - May 2025

BNEC TOELF TUTOR

TOELF Tutor

- Paid to teach academic English and communication skills professionally in a university TOEFL prep program for 2 semesters (1 year)
- Helped 12+ students improve grammar understanding and test strategies, leading to higher TOEFL scores.

BINUS Alam Stuera

May 2024 - Feb 2025

PROJECTS

Real-time CNN Chord Classifier

Technologies: *Python, TensorFlow, Next.js, Flask, Librosa*

[Github](#)

- Collected and labeled 1,000+ guitar chord audio samples to build a custom dataset (maj, min, maj7, min7).
- Engineered WAV signals into Mel Spectrogram, Chroma, and CQT features to train a CNN for chord recognition.
- Reached 70% accuracy on the custom dataset and 40% on real-world benchmarks (GuitarSet, IDMT-SMT).
- Built a web app for real-time chord prediction from microphone input with ~1-second latency.

Real-time AQI Prediction Model

Technologies: *Python, Scikit-learn, React, OpenWeather API, Postman*

[Github](#)

- Trained a Random Forest regression model on PM2.5, PM10, and O₃ pollutant data to predict AQI with ~90% test accuracy.
- Integrated live pollutant retrieval via OpenWeather API and automated preprocessing for real-time inference.
- Deployed a full-stack web app that returns AQI forecasts for any city with on-demand model predictions.

EDUCATION

BINUS University

Undergraduate, Computer Science

- Pursuing a B.Sc. in Computer Science, Specializing in Intelligent Systems.
- Currently in 5th semester. GPA: 3.71 / 4.00.

Alam Sutera

2023 - Present

SMAK BPK PENABUR Singgasana

Highschool Student

- 90+/100 for core subjects such as Math, Physics, Biology, English, Computer. Total average of 91.45/100 across all subjects.
- Member of the Student Council, Christian Affairs Division
- Monthly volunteer guitarist for school Christian ceremonies and events

Bandung, West Java, Indonesia

2020 - 2023

SKILLS

Programming: Python (Pandas, NumPy, SQLAlchemy, Flask, scikit-learn, TensorFlow), JavaScript (React, Node.js, Express, React Native), C

Databases & Query: PostgreSQL, MySQL, MongoDB, Firebase, Supabase, Advanced SQL (CTEs, Window Functions, Query Optimization, Indexing)

ML & AI: LLMs, BERT, RAG, Multi-Agent Systems, Random Forest, BiLSTM, RNN, CNN, XGBoost

DevOps & Tools: Docker, Git, REST APIs

Languages: Indonesian (Native), English (Fluent).