QALAM NOER FAZRIAN

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Computer Science undergraduate focused on product-oriented Data Science with hands-on experience in exploratory data analysis, predictive modeling, and NLP-based machine learning systems using both academic and real-world datasets. Experienced in model experimentation, evaluation, and API deployment using Python and SQL to support data-driven decision making. Also bringing freelance full-stack development experience that strengthens engineering execution and system thinking. Passionate about applying machine learning to improve digital products and business outcomes.

EDUCATION

Universitas Pendidikan Indonesia – Bandung   **Sep 2023-May 2027 (Expected)**
Bachelor of Computer Science — GPA: 3.29/4.00

PROFESSIONAL EXPERIENCE

Giat Kedinasan – Cianjur, Indonesia (Project-Based)   **Aug-Sep 2025**
Fullstack Developer Freelance
- Developed production-ready web applications using Laravel and relational databases, including SQL-based data management
- Designed and implemented database schemas and CRUD systems to support dynamic content workflows
- Delivered end-to-end client projects independently, translating client requirements into functional deployed systems

PROJECT EXPERIENCE

IndoBERT Sentiment API (Shopee Reviews) (GitHub)
- Built an NLP pipeline using IndoBERT to classify 2,617 Indonesian e-commerce reviews, achieving 84% accuracy
- Achieved 87% recall for negative sentiment detection and 90% precision for positive reviews through optimized model evaluation
- Deployed the model as a REST API using FastAPI for real-time sentiment inference on informal text

Credit Default Prediction using Machine Learning (GitHub)
- Performed EDA on 15K+ credit records, engineered ratio-based features, and reduced multicollinearity through correlation-driven feature selection
- Built and compared Naive Bayes, Decision Tree, Random Forest, and XGBoost models on an imbalanced dataset (91% vs 9%)
- Improved default-risk detection recall from 0.11 → 0.80 and achieved 83% accuracy with XGBoost through model evaluation and tuning

Cyberbullying Classification using RNN & LSTM (GitHub)
- Compared Simple RNN and LSTM models for Instagram comment classification, achieving 82.31% accuracy
- Applied text preprocessing using regex, tokenization, and stopword removal (NLTK)
- Visualized training dynamics using Matplotlib and Seaborn to monitor convergence and validate the effectiveness of the Long Short-Term Memory (LSTM) units in capturing long-term dependencies

Predictive Analysis & Strategic Mapping of HIV Spread in West Java (GitHub)

- Integrated multi-source regional datasets covering 27 districts over 7 years into a unified epidemiological analysis pipeline
- Developed a machine learning model achieving $R^2 > 0.8$ and applied clustering to classify regions into risk-based policy zones
- Generated geospatial risk maps identifying urban hotspots and regional buffer zones

ORGANISATIONAL & VOLUNTEER EXPERIENCE

Kepengurusan Asrama UPI Bumi Siliwangi 2025 – Bandung   **Dec 2024 – Dec 2025**
Chief of Art Sub Division
- Led and coordinated a team of 5 members in managing multiple arts training programs
- Developed 4-month program timelines with weekly training sessions
- Oversaw training for 25+ participants across traditional dance, modern dance, angklung, and vocal group

Pengabdian pada Masyarakat Kemakom 2024 – Bandung   **Aug 2024**
Staff of Public Relation Division
- Served as liaison between the organization and 3 partner schools, coordinating IT literacy training programs
- Communicated with school principals to organize schedules and ensure successful program execution
- Supported teaching teams by assisting students during training sessions to maintain learning effectiveness

Festival Olahraga dan Seni Asrama UPI 2024 – Bandung   **May 2024**
Head of Event Division
- Designed and executed the full event concept, including run-down and operational breakdown
- Directed coordination across divisions to ensure efficient event execution
- Successfully attracted 100+ participants and external media coverage from TV UPI

SKILLS

Hard Skills: Python, SQL, Pandas, NumPy, Scikit-learn, TensorFlow, NLP, Machine Learning, Deep Learning, FastAPI, Predictive Modeling, Exploratory Data Analysis, Statistical Analysis, Model Evaluation, Git, GitHub, Laravel, Jupyter, VS Code

Soft Skills: Leadership, Team Coordination, Project Planning, Time Management, Cross-team Communication, Problem Solving, Accountability, Organizational Management

CERTIFICATION

Machine Learning Specialization - DeepLearning.AI (In progress)