

# QALAM NOER FAZRIAN

Bandung, West Java | [nuerqalam@gmail.com](mailto:nuerqalam@gmail.com) | 0851-5604-7903 | [linkedin](#) | [github](#)

Computer Science undergraduate deeply passionate about Data Science, Machine Learning, and Artificial Intelligence, with strong commitment to building analytical and intelligent systems. Experienced in developing NLP pipelines, predictive models, and deep learning architectures through hands-on projects. Continuously exploring modern AI techniques and applying them to real-world problems, aiming to grow as a data scientist capable of creating impactful solutions.

## EDUCATION

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**Universitas Pendidikan Indonesia – Bandung**  
Bachelor of Computer Science — GPA: 3.29/4.00

**Sep 2023-May 2027 (Expected)**

## PROFESSIONAL EXPERIENCE

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**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

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**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

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## ORGANISATIONAL & VOLUNTEER EXPERIENCE

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### **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

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## SKILLS

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**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, Communication, Problem Solving, Project Execution, Cross-functional Collaboration

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## CERTIFICATION

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**Machine Learning Specialization - DeepLearning.AI (In progress)**