

NAUVAL YUSRIYA ATHALLA

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ABOUT ME

I am an Information Technology student at Telkom University with a specialized focus on Machine Learning and Data Engineering driven by the mission to build high impact technology for social good. I have extensive experience developing ML models across diverse data structures including vision language tasks, signal, and time series data while managing robust Data Engineering and MLOps pipelines using Airbyte, Apache Spark, Kafka, Docker, and Kubernetes. My proficiency extends to Cloud architectures specifically Google Cloud Platform tools like BigQuery, Dataflow, and Dataproc as well as AWS S3. A proven competitor in the national tech circuit, I earned a 1st place in Hackfest 2026 Code for Humanity, demonstrating my ability to translate complex technical stacks into practical and scalable solutions.

WORK EXPERIENCE

Digital Talent Centre Laboratory – Prodigy - Assistant

Jan 2026 – Now

Digital Talent Centre Laboratory – Prodigy, Telkom University, Bandung

- Secured 7+ victories in national AI and Hackathon competitions by developing high-performance machine learning models and innovative AI solutions.
- Mentored 500+ students on AI competition strategies, fostering technical excellence and significantly increasing the organization's competitive success rate.

IoT Laboratory Assistant

Mar 2025 – Mar 2026

IoT Laboratory, Telkom University, Bandung

- Guided 20+ students in deploying lightweight ML models to ESP32/Arduino, resulting in 15+ functional AIoT prototypes capable of real-time sensor data processing.
- Architected 2 new practicum modules on end-to-end AI-IoT data integration, improving the practical hardware-to-cloud data engineering skills of 20+ students.

Artificial Intelligence Laboratory Member

Aug 2025 – Oct 2025

Artificial Intelligence Laboratory, Telkom University, Bandung

- Achieved 97.12% accuracy in image classification by optimizing MobileNetV2, delivering a 19.7% performance boost over baseline models.
- Optimized model efficiency for limited datasets using Transfer Learning, effectively mitigating overfitting and outperforming ResNet50 in computational resource management.

ORGANIZATIONAL EXPERIENCE

Vice Lead

Feb 2026 – Now

Digistar Club Campus Chapter, Telkom University, Bandung

- Act as the primary liaison between the Telkom University Campus Chapter and the central Digistar Club by Telkom Indonesia, ensuring effective implementation of national policies and programs at the campus level.
- Directing a core team of 30+ members, overseeing organizational operations, and ensuring alignment between university initiatives and Telkom Indonesia's national digital roadmap.
- Spearheading the execution of major campus events, successfully engaging over 500+ participants through high-impact workshops.

Executive Assistant Secretary

Aug 2025 – Jan 2026

Digistar Club by Telkom Indonesia, Bandung

- Successfully delivered 5+ high-impact club activities for over 300 participants by applying data-driven planning through Pandas to identify optimal event formats.
- Served as a communication link between 20+ active board members and 5 external partners to ensure effective and timely coordination.
- Successfully positioned Digistar Club among the Top 5 Student Organizations in the Reasoning Category at Telkom University.

Fundraising Officer

2025

Java Business Competition, Telkom University

- Leveraged market research and historical data analysis to identify and segment 20+ high-potential corporate leads, resulting in more targeted and effective partnership outreach.
- Managed end-to-end negotiations with external corporations by presenting data-backed value propositions, focusing on brand exposure metrics and ROI to secure funding for national-level business competitions.

AWARDS & ACHIEVEMENTS

1st Place <i>Hackfest 2026 : Code for Humanity</i>	2026
1st Place <i>Refactory Hackathon x UGM</i>	2026
1st Place <i>Adikara 2025 - Innovation</i>	2025
Finalis - Hackathon <i>Arkavidia 10.0 ITB 2026</i>	2026
Top 50 National <i>Innovillage 2025</i>	2025
Top 10 Finalist – Business Plan Competition <i>Begin 2.0 - Universitas Surabaya</i>	2025
Telkom University Official Delegation <i>Gemastik 2025</i>	2025

EDUCATION

Bachelor of Information Technology Sep 2023 – Now
Telkom University, Bandung | IPK: 3.74

SKILLS

Research Interests: Multimodal Learning, Computer Vision, NLP, Time Series, Graph Neural Networks, Spatial Analysis, Social Network Analysis, Tabular Data.

Machine Learning & AI Stack: PyTorch, TensorFlow, Hugging Face, Scikit-Learn, XGBoost, LightGBM, CatBoost, NumPy, NiaPy, PyTorch Frame, LangChain, LlamaIndex, Groq, NLTK, Spello.

Computer Vision & Time Series: OpenCV, Pillow, Scikit-Image, Ultralytics, DeepLab, Roboflow (Sports & Tracking), Nixtla, Sktime, Darts, GluonTS, Torch Geometric Temporal.

Data Engineering: Airbyte, Google Datastream, Flink CDC, Debezium, Kafka, Elasticsearch, Apache Airflow, Hadoop, Spark, Apache Beam, Flink, dbt, DuckDB, Ibis.

Data Storage & Cloud: MySQL, PostgreSQL, Google BigQuery, Google Cloud Storage (GCS), AWS S3.

Data Analysis & Visualization: Tableau, Power BI, Looker, Ms. Excel, Google Sheets, Pandas, Polars, Gephi, Google Earth Engine, QGIS, Geopandas, Folium.

MLOps & Backend: Docker, Kubernetes, TensorFlow Serving, TorchServe, LitServe, FastAPI.

Soft Skills: Leadership, Project Management, Communication, Collaboration, Problem Solving, Critical Thinking, Emotional Intelligence.