

# Muhammad Naufal Farabbi

Bekasi, Indonesia

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## Summary

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Data Science graduate with strong proficiency in Python, SQL, and R, experienced in data analytics, machine learning, and AI-driven solutions. Skilled in transforming complex datasets into actionable insights through statistical modelling, predictive analysis, and interactive dashboards. Demonstrated ability to apply AI to real-world business problems, supported by strong leadership, stakeholder communication, and cross-functional collaboration.

## Technical Expertise

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- **Programming & Analytics:** Python, R, Microsoft Excel, SPSS, Eviews
- **ML Libraries:** TensorFlow, Keras, PyTorch
- **Machine Learning Skills:** Computer Vision, Natural Language Processing (NLP), Ensemble Learning, Time Series Analysis
- **Developer Tools:** Git, Flask, Docker, Android Studio
- **Databases:** SQLite, SQL

## Work Experiences

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### Part Time Lab Assistant

October 2025 - January 2026

Business Statistics - Telkom University Purwokerto

- Delivered lab sessions on business statistics and analytical methods for data-driven decision-making using SPSS software.
- Developed 8 lab modules and guided students through practical assignments to improve statistical reporting.

### Census Data Processing Staff

September 2025 - November 2025

Badan Pusat Statistik - Brebes

- Performed data entry and validation of all resident and family master data across 200 different local neighborhood units (SLS) in Bumiayu into the BPS server database.
- Utilized QGIS and ArcGIS to process, update, and verify digital statistical work-area maps for 200 neighborhood units, successfully integrating the spatial maps with the SLS master dataset for census preparation.

### IPDS Division Staff

July 2025 - September 2025

Badan Pusat Statistik - Brebes

- Developed INNOVA, a Python-based desktop tool to automate news ingestion pipelines from 27+ local online portals into a SQLite database for structured storage.
- Developed and managed the “Desa Cantik (Desa Cinta Statistik)” website for Langkap Village, successfully publishing 3 official statistical reports to support public data dissemination.
- Collected and analyzed more than 5000 public comments using machine learning to produce sentiment analysis insights for local context monitoring.

### Part Time Lab Assistant

October 2023 - January 2024

Statistical Methods - Telkom University Purwokerto

- Developed 13 modules emphasizing practical applications for data science and decision-making.
- Taught statistical analysis using R and Minitab.
- Mentored 34 students through labs and assignments, strengthening analytical thinking,

communication, and problem-solving skills.

## Organizational Experience

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### Head of Events and Operations Division

April 2024 - April 2025

AWS Cloud Clubs

- Led planning and execution of cloud learning events and hands-on sessions; coordinated speakers, logistics, and participant engagement.

### Head of Corporate System Governance Division

July 2024 - July 2025

SIRCLE Telkom University Purwokerto

- Empowered students to excel in corporate system governance through practical projects, workshops, and collaboration with industry experts.

### Leader of Data Science Explorers (DICE)

July 2023 - July 2024

DICE Telkom University Purwokerto

- Led community programs to improve members' competencies in the field of data science.

### Research Division Staff

July 2023 - July 2024

Himpunan Mahasiswa Sains Data

- Organized local and national Machine Learning competitions with 100+ teams, supporting end-to-end event operations and participant coordination.

## Awards & Achievements

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### Favorite Champion Award

December 2025

Dashboard Analytics Competition - Data Slayer 3.0

- Built an analytical dashboard as a decision-support system (data visualization, KPI tracking, insight storytelling).

## Certification & Training

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- **Data Pipelines with TensorFlow Data Services** - Coursera, DeepLearning.AI (2024)  
Credential ID: [DA56Z5UZ5H8D](#)
- **DeepLearning.AI TensorFlow Developer Specialization** - Coursera, DeepLearning.AI (2024)  
Credential ID: [QXI95GW66XVP](#)
- **Natural Language Processing in TensorFlow** - Coursera, DeepLearning.AI (2024)  
Credential ID: [3R9009F1AUX4](#)
- **Machine Learning Specialization** - Coursera, Stanford CPD, UVM (2024)  
Credential ID: [78RJ047L1Y3Y](#)
- **Machine Learning Cohort** - Bangkit Academy by Google, Goto, and Traveloka (2024)
- **Product Manager** - Skill Academy by Ruangguru (2022)

## Projects

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### Human Fall Motion Prediction

March 2025 - Current

- Developing a hybrid deep learning model (GCN-GRU) for human motion prediction and fall detection, utilizing 2D human pose data extracted from over 11,500 images.

### INNOVA: Multi-Portal Desktop News Aggregator

July 2025 - September 2025

- A Python-based multi-portal news aggregator designed to extract articles from 27 various Indonesian media sites and combine them into a well-structured CSV and Excel file.

- Built a backend with Python Flask to manage parallel processing and store data in SQLite database.

### **Driver Drowsiness Detection App**

**February 2025 - June 2025**

- Developed an AI-powered mobile application to detect driver drowsiness early using Mediapipe Face Mesh, Android Studio and the TensorFlow Framework. Achieving 78% accuracy across precision, recall, and F1-score.

### ***Emotion-Based Movie Classifier***

**October 2024 - December 2024**

- Implemented an LSTM-based classifier with 7.6 million trainable parameters for movie recommendations based on emotions on an Android application. Deployed the system using Kotlin for the Android UI, TFLite for mobile optimization, and Google Cloud Run for API hosting.

### **Predicting Suicidal Ideation**

**December 2023 - January 2024**

- Utilized NLP techniques and Multinomial Naive Bayes to analyze 232,000 Reddit posts for early suicidal ideation detection, achieving 92.9% accuracy and a 98.2% ROC-AUC score.

### **Predicting Liver Disease**

**March 2024 - September 2024**

- Utilized a stacking ensemble model combining 7 base model with a Logistic Regression meta-estimator to improve liver disease predictions, achieving 82.85% accuracy and 91.28% AUC.

### **Modelling GDP of Developed Countries**

**January 2024 - March 2024**

- Developed a Fixed Effect Panel Data Regression model in EViews to analyze GDP drivers across 10 developed countries over an 11-year period. The model successfully passed all rigorous classical assumption tests and achieved a 99% R-squared score.

## **Education**

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### **Telkom University Purwokerto**

**October 2022 - January 2026**

Bachelor of Data Science, GPA 3.90/4.00

## **Soft Skills**

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- **Critical Thinking & Problem Solving**
- **Communication & Public Speaking**
- **Teamwork & Leadership**
- **Time Management & Organization**

## **Language**

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- **Indonesian**, native
- **English**, EPrT (English Proficiency Test) Score 532/677