# FARHAN FITRAN MAULANA

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## PROFILE

Information Systems student at Institut Teknologi Sepuluh Nopember (ITS) with a GPA of 3.75/4.00, seeking a Data Analyst, Business Intelligence, Data Scientist, or Machine Learning Engineer internship. Delivered 5 data analytics, research, and machine learning projects using SQL, Python, Tableau, Power BI, and PyTorch, including an ETL pipeline and 4 delivery and customer-satisfaction KPIs built on 99K e-commerce orders. Led a 16-member data team managing 7,100+ student records, held 10 organizational and volunteer roles (6 in data management), and won 2nd and 3rd place in data science competitions.

## EDUCATION

**Institut Teknologi Sepuluh Nopember (ITS), Surabaya** **Jul 2024 - Oct 2028 (Expected)**

*Bachelor's Degree in Information Systems | GPA: 3.75/4.00*

Relevant coursework: Data Analytics & Diagnostics, Predictive Modeling & Analytics, Database Systems, Probability & Statistics for IT

**Dibimbing.id - Data Science & AI/ML Bootcamp** **Mar 2026 - Nov 2026**

- Completed a 9-month intensive program in Python, SQL, statistics, data cleaning, exploratory data analysis (EDA), and data visualization using real-world datasets.
- Built 3 types of machine learning models (regression, classification, and time series forecasting), including a bank customer churn analysis, and gained exposure to deep learning (CNN), computer vision, and generative AI.

## EXPERIENCE

**Practicum Assistant - Data & Diagnostic Analytics** **Sep 2026 - Present**

*Institut Teknologi Sepuluh Nopember (ITS), Surabaya*

- Lead hands-on practicum sessions in Data & Diagnostic Analytics for 2 classes (about 99 students), teaching students to turn raw data into insights through data visualization and exploratory analysis.
- Designed the practicum outline and built step-by-step Tableau data visualization modules, restructured from the previous year's module to improve learning flow for a 99-student cohort.
- Translate analytical concepts into clear explanations for a mixed-level cohort of about 99 students, strengthening communication and teaching skills.

**Head of Data Center** **Jun 2026 - Aug 2026**

*GERIGI x UKM EXPO ITS 2026, Surabaya*

- Led a 16-member data management team (1 Deputy Head, 3 Expert Staff, 12 Staff) running large-scale student data operations over a 3-month program.
- Oversaw data management and grouping for 7,100+ new ITS students across 4 data streams: attendance, feedback, test scores, and report cards.

**Human Resources** **Aug 2025 - Jun 2026**

*Society of Renewable Energy ITS (SRE ITS SC), Surabaya*

- Built a performance tracking dashboard to monitor and analyze data of 50+ associates, integrated with the central member database.
- Created and maintained 1 integrated database that centralizes data of all staff and associates, making data recording more efficient.
- Mentored and supervised 6 associates over an 11-month term, and served as Master of Ceremonies at Team Days 2026.

**Head of Data Management** **Feb 2026 - Nov 2026**

*Information Systems Expo (ISE!) 2026, Surabaya*

- Coordinated 3+ core administrative systems (competition registration, email blast generation, certificate automation) supporting 500+ participants across multiple event programs.

**Student Ambassador** **Jun 2025 - Dec 2025**

*PT Bank Digital BCA (BCA Digital), Surabaya*

- Promoted the blu by BCA Digital app to students through referral-based outreach as a campus ambassador.
- Completed ambassador onboarding and training in product knowledge and public speaking, strengthening communication and presentation skills.

## PROJECTS

**Olist E-Commerce Delivery & Customer Experience Dashboard** **2026**

*Data Analyst | PostgreSQL, Python, Tableau*

- Built a 3-layer (bronze, silver, gold) ETL data pipeline in Python and PostgreSQL for 99K e-commerce orders, producing 10 data-quality audit reports on uniqueness, referential integrity, timestamp validity, geolocation coverage, and status consistency.
- Designed fact and dimension tables and wrote custom SQL (CTEs) to create a one-row-per-order dataset, reducing multiple reviews per order to 1 score.
- Defined 4 delivery and customer-satisfaction KPIs (on-time rate, delivery days, delay days, review score) in a KPI dictionary and am building a 3-page Tableau dashboard (Executive, Operational, Customer Experience).

**Central Java Education & Unemployment Dashboard** **2026**

*Data Analyst | Power BI, Excel*

- Analyzed 175 city-year observations (35 regencies/cities, 2021-2025) of mean years of schooling and open unemployment rate (TPT), benchmarked against national averages.
- Prepared 3 datasets (city, province, education level) and built an interactive Power BI dashboard with 4 charts and 2 slicers to compare regions and unemployment by education level.

**PadiCare AI - Rice Disease Detection Using Deep Learning** **Sep 2026 - Oct 2026**

*Machine Learning | PyTorch, EfficientNet-B0, Streamlit | **Live Demo** | **GitHub***

- Built a 10-class rice disease classifier with EfficientNet-B0 transfer learning, using feature caching and class-weighted loss to improve training efficiency and handle class imbalance.
- Achieved 93.66% test accuracy and 93.57% macro F1-score across 10 classes.
- Deployed a bilingual (2-language) Streamlit app on Streamlit Community Cloud with confidence scores, top-3 predictions, and agronomic recommendations.

**DrowseGuard - Real-Time Drowsiness Detection System** **Oct 2026**
*Computer Vision (Group Project) | PyTorch, OpenCV, MediaPipe, Gradio |* ***GitHub***
- Trained a PyTorch CNN on the MRL Eye Dataset to classify open vs. closed eyes from 64x64 grayscale crops, using MediaPipe Face Mesh and OpenCV for eye detection.
- Delivered 2 real-time app versions (OpenCV desktop and Gradio web) that trigger a visual and audio alert after 2 seconds of continuous eye closure, with prediction smoothing to filter normal blinks.

**Short-Form Content Consumption and ITS Students' Academic Focus (Research Study)** **Mar 2025 - Jun 2025**
*Quantitative Research | R, RStudio*
- Surveyed 120 ITS students with structured questionnaires and analyzed the data in RStudio using data validation, reliability assessment, descriptive statistics, and hypothesis testing.
- Found no statistically significant effect of high short-form content consumption on academic focus or learning outcomes, and presented the results in 1 collaborative academic poster.

## ORGANIZATIONAL & VOLUNTEER EXPERIENCE

**Dashboarding Speaker - AKSELERASI 2026** **Aug 2026**
*HMSI ITS*
- Delivered 1 session on data visualization and interactive dashboards using Google Looker Studio.

**Apprentice - Internnet Wave 11, Technology Path** **May 2026 - Jun 2026**
*Internnet Indonesia*

**Expert Staff of Data Management** **Sep 2025 - Mar 2026**
*Ini Lho ITS! 2026*
- Managed and validated 2,000+ registration records for Open Campus ITS and Try Out Sepuluh Nopember.
- Served as person-in-charge (PIC) of FTEIC during the 3-day Open Campus, coordinating data for 200+ attendees.

**Expert Staff of Administration** **Aug 2025 - May 2026**
*Petroleum Integrated Days (Petrolida)*
- Managed and verified registration documents for 200+ participants across multiple competition branches, reducing registration errors.

**Vice Head Data Center, Aksi Sepuluh Nopember 2025** **Sep 2025 - Nov 2025**
*Badan Eksekutif Mahasiswa ITS (BEM ITS)*
- Supported the Head of Data Center in managing participant data for 1,000+ participants.

**Expert Staff of Data Management** **Aug 2025 - Dec 2025**
*MABA CUP ITS*
- Handled registration and document verification for all competition branches, covering participants from 40 ITS departments.

**Staff of Data Center** **Jul 2025 - Sep 2025**
*GERIGI x UKM EXPO ITS 2025*
- Managed attendance, feedback, test score, and report card data for 6,700+ new ITS students.

**General Secretary** **Oct 2024 - Jan 2025**
*Campus Expo 2025, MAN 1 Jember*
- Drafted proposals and secured event permits for Campus Expo 2025, and managed records of 120+ alumni participants.

## ACHIEVEMENTS & CERTIFICATIONS

- **3rd Place, Data Science Competition** - *HIMATIFA UPNVJT* **Nov 2026**
- **2nd Place, Kaggle Competition** - *AXION 2025* **Nov 2025**
  Developed a machine learning solution to forecast water turbidity from multivariate environmental sensor data, using feature engineering, time-series analysis, and regression modeling.
- **EF SET Certificate B2 Upper Intermediate** - *EF SET* **Mar 2026**
- **Introduction to SAP S/4HANA with GBI 4.2** - *SAP* **Dec 2025**
- **Data-Driven Decision Making** - *PwC* **Jan 2025**
- **Problem Solving with Excel** - *PwC* **Jan 2025**
- **Learn Data Science Basics** - *Dicoding Indonesia* **Nov 2024 - Nov 2027**
- **Learn AI Basics** - *Dicoding Indonesia* **Nov 2024 - Nov 2027**

## SKILLS

**Programming & Tools:** Python, SQL (PostgreSQL), R, Java, Pandas, PyTorch, OpenCV, MediaPipe, Tableau, Power BI, Looker Studio, Microsoft Excel, Jupyter Notebook, Git/GitHub, Streamlit, FastAPI, SAP S/4HANA
**Data & Business Intelligence:** ETL / Data Pipeline, Data Modeling (Fact and Dimension Tables), Data Quality Auditing, Dashboard Development, KPI Design, Data Visualization, Data Cleaning & Preprocessing, Exploratory Data Analysis (EDA), Business Intelligence
**Machine Learning & Statistics:** Regression, Classification, Time Series Forecasting, Deep Learning (CNN), Transfer Learning, Computer Vision, Feature Engineering, Model Evaluation, Statistical Analysis, Hypothesis Testing
**Soft Skills:** Analytical Thinking, Structured Problem-Solving, Leadership, Teamwork, Public Speaking, Communication