

# SATRIA NUGRAHA SAPUTRA

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Jl. Darat Lasimin, Rt:01/Rw:10, Kel. Kuningan, Kec. Semarang Utara, Kota Semarang

Data Scientist with strong foundation in Machine Learning, Artificial Intelligence, and Data Analytics. Fresh graduate in Informatics Engineering from Semarang University with hands-on experience in data pipeline development, predictive modeling, NLP, and visualization. Completed multiple projects using Python, SQL, and BI tools, including anomaly detection for cybersecurity and user sentiment analysis. Certified in AI Foundations (IBM) and Data Science (Dicoding). Proven ability to deliver actionable insights, improve model accuracy, and support data-driven decision-making.

## Work & Internship Experience

### PT Hacktivate Teknologi Indonesia

Feb 2024 - Jun 2024

IBM SkillsBuild For AI & CyberSecurity Intern

- Developed Python-based data pipeline for anomaly detection, improving detection accuracy by 20% on test datasets.
- Conducted exploratory data analysis (EDA) on cybersecurity datasets using Pandas & Seaborn to identify threat patterns.
- Researched AI ethics and enterprise cybersecurity best practices for safe deployment of ML models.

### CV Solusi Arya Prima

Aug 2024 - Oct 2024

IT Support Intern

- Provided network troubleshooting & system maintenance, reducing downtime incidents by 15%.
- Installed & configured Windows systems, ensuring optimal performance for 50+ users.
- Performed quality control checks to maintain high service standards.

## Education

### Semarang University - Semarang, Indonesia

Aug 2021 - Jan 2025

Bachelor of Informatics Engineering, 3.88/4.00

### SMK Walisongo Semarang - Semarang, Indonesia

Jul 2017 - May 2020

Senior High School, TKJ (Teknik Komputer Jaringan)

## Organizational Experience

### Student Senate - Semarang

Jan 2022 - Dec 2022

Junior Legislator

- Play an active role in the planning and implementation of student activities in accordance with SEMA campus regulations.
- Develop leadership, financial management, and team coordination skills.

### Himmatisi - Semarang

Jan 2023 - Dec 2023

Non-Academic

- Organizing seminars, workshops, and social events.
- Promote Himmatisi through social media and collaborate with external parties.
- Organize new member orientation activities and increase active member engagement.
- Compile activity reports and manage organizational funds.

### MARVIND COMMUNITY - Semarang

Jan 2022 - Dec 2022

Member

- Community Manager: Manage and maintain active and inclusive interactions between members. Promote the community through social media and offline events.
- Learning Manager: Provide learning materials and tutorials related to Web, Android, and Games. Organize training sessions to enhance members' skills.

## Technical Skills

### Hard Skills:

- Programming & Data Tools:** Python (pandas, NumPy, scikit-learn, TensorFlow, Matplotlib, Seaborn), SQL, Jupyter Notebook, Git & GitHub.
- Machine Learning:** Classification, Regression, NLP, Time Series Analysis, Model Evaluation, Feature Engineering.
- Databases:** MySQL, PostgreSQL.
- Visualization & BI:** Tableau (basic), Power BI (basic), Excel (advanced), Looker Studio.
- Other Tools:** Microsoft Office 365, Basic Web Development (HTML, CSS, JS).

**Soft Skills:** Problem Solving, Analytical Thinking, Effective Communication, Team Collaboration, Time Management, Decision Making.

## Selected Projects

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- **Sentiment Analysis with RNN & CNN (2024):** Achieved 87% accuracy classifying Genshin Impact user reviews from Google Play Store.
- **Healthcare Stroke Prediction (2024):** Built ML model to predict stroke risk, achieving AUC score 0.91.
- **Email Spam Classification (2024):** Implemented NLP text classification model using scikit-learn with precision 89%.
- **Sales Dashboard (2024):** Designed Excel-based interactive dashboard to track monthly transactions, reducing report preparation time by 40%.
- **Bike Sharing Demand Forecasting (2024):** Applied time series analysis to predict daily rentals with MAPE < 10%.

## Certifications

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- **IBM:** AI Foundations, Getting Started with Enterprise Data Science, Enterprise Data Science in Practice, QuantumSafe Encryption Essentials, Enterprise Security in Practice, Machine Learning for Data Science Projects, Deep Learning Essentials, Building AI Solutions Using Advanced Algorithms and Open Source Frameworks, Project Management Fundamentals, Data Classification and Summarization Using IBM Granite.
- **Dicoding:** Web Development Dasar, Analisis Data dengan Python, Pemrograman dengan Python, Structured Query Language (SQL), Data Science, Machine Learning Untuk Pemula, Visualisasi Data, Manajemen Proyek.
- **Microsoft (2025):** Office 365 Certified.
- **Udemy (2023):** Complete Cyber Security Course: Hackers Exposed.