



FARREL SATYA PUTRA MAHENDRA

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Data Scientist & AI Researcher with a Master's in Informatics, experienced in machine learning, NLP, and deep learning. Developed AI solutions for text summarization and sentiment analysis. Proficient in Python, SQL, and various AI techniques, with a strong track record in research, industry projects, and competition awards.

EDUCATION

INSTITUT TEKNOLOGI BANDUNG Aug 2022 – Sep 2024

Master's Degree, Informatics

- GPA: 3.77/4.00
- Data Science and Artificial Intelligence

UNIVERSITAS BRAWIJAYA Aug 2017 – Jul 2021

Bachelor's Degree, Electrical Engineering

- GPA: 3.86/4.00 (Cumlaude)
- Control Engineering

WORK EXPERIENCES

BANK RAKYAT INDONESIA Sep 2023 – Feb 2024

AI Researcher (Intern)

- Developed a text summarization model for banking documents as part of a larger system to help internal teams efficiently find relevant documents.
- Conducted research on the latest methods for long-text summarization using transformer-based architectures.
- Created a new dataset consisting of 10,000 lengthy documents, improving the dataset diversity, and leading to more robust model training and evaluation.

INSTITUT TEKNOLOGI BANDUNG Aug 2023 – Dec 2023

Machine Learning Assistant

- Led and coordinated 8 hands-on machine learning practical sessions, ensuring smooth delivery to 20 students.
- Designed and developed 6 detailed syllabi that improved the clarity of the practicals.
- Supervised 3 student group projects, providing guidance on data preprocessing, model selection, and evaluation metrics.

NOLIMIT INDONESIA Jun 2023 – Sep 2023

Data Scientist (Intern)

- Optimized sentiment analysis API, achieving a 5x improvement in processing speed, which reduced response time from 1 seconds to 0.2 seconds.
- Regularly updated machine learning models with new data, maintaining sentiment classification accuracy over 90%.
- Conducted data preprocessing on large-scale sentiment data, streamlining the workflow and reducing data preparation time.
- Conduct research on incorporating BERT and LLM to improve the accuracy of sentiment predictions through fine-tuning techniques and hyperparameter optimization.

LABTECH INTERNATIONAL, LTD Aug 2021 – Aug 2022

R&D Software Engineer

- Designed and developed user interfaces and 3D animations for 9 cross-platform software products (for PC and Android), enhancing user experience and product interactivity.
- Spearheaded the maintenance of code, ensuring the smooth functionality of user interfaces, animations, and hardware communication.
- Selected multiple times as a product presenter to clients, successfully delivering product demonstrations.

PT. AKSARA DIGITAL INDONESIA*Apr 2021 – Jul 2021***Software Engineer (Intern)**

- Maintained and improved a web-based application used by doctors to review patient medical records, enhancing the user interface and experience.
- Integrated Odoo business application software, automating employee management, payment processing, and doctor's remuneration.

ACHIEVEMENTS**TURNAMEN SAINS DATA NASIONAL 2022***Dec 2022*

- Favourite Champions of TSDN 2022 – Kategori Mahasiswa over 200+ participating teams.
- Conducted research and analysis to develop digital culture in Indonesia by creating a rice disease detection system.
- Responsible of data visualization using Tableau.

KONTES ROBOT INDONESIA 2020*Aug 2020*

- 5th Place in KRI Nasional 2020 – KRSBI Beroda.
- Qualified from KRI Regional to compete on the national stage with universities in Indonesia.

PUBLICATIONS**ICEEI (International Conference on Electrical Engineering and Informatics)***Dec 2023*

- Big Five Personality Prediction Based on Indonesian Tweets and Personality Test
- Paper link: <https://ieeexplore.ieee.org/document/10346812>

VOLUNTEER EXPERIENCES**BRAWIJAYA ROBOTICS TEAM***Sep 2018 – Jul 2021***Computer Vision Programmer**

- Developed a computer vision system for three-wheeled soccer robots, enabling ball detection, enemy recognition, and field mapping.
- Implemented wireless communication using UDP and TCP protocols for real-time robot coordination.
- Created a GUI for monitoring robot status and remote strategy application.
- Mentored junior programmers, promoting collaboration and skill development.

OLIMPIADE BRAWIJAYA*Oct 2018***FT-UB Delegation Manager for Bridge Competition Category**

- Led the FT-UB Bridge Team to a 2nd place finish in the competition, competing against multiple faculties, demonstrating effective team management and strategic planning.
- Coordinated practice sessions and schedules with the team and coach, optimizing preparation and ensuring all members were aligned with competition strategies.
- Acted as the liaison between the bridge team and the organizing committee, facilitating clear communication and addressing logistical needs, which improved team performance.

SKILLS

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|-------------------------------------|----------------------|
| • Python | • Big Data |
| • SQL | • Data Visualization |
| • Machine Learning & AI | • Internet of Things |
| • NLP (Natural Language Processing) | • Microcontroller |
| • Computer Vision | |

ADDITIONAL**Github:** <https://github.com/farrelsp>**LinkedIn:** Farrel Satya Putra Mahendra**Certificates:**

- TOEFL ITP – 603
- Microsoft Desktop Application

Willing to relocate: Available for relocation throughout Indonesia.**Marital status:** Single, with a strong commitment to comply with the company's employment terms throughout the recruitment process.