# M SHAFRI SYAMSUDDIN

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Semarang, Indonesia 50273

Data, Machine Learning and Deep Learning Enthusiast with a strong background in computer science and data analytics. Experienced in AI Tasks such as NLP and Computer Vision. Experienced in data processing, statistical modeling, and predictive analytics, utilizing tools such as SQL, Python, and machine learning frameworks. Proficient in ETL processes, data visualization, and database management, with hands-on experience in developing malaria parasite stage detection model, NLP tasks such as tweet sentiment analysis, designing and programming games, one which teaches algorithmic thinking, hotel booking system, also experienced in making UI design for psychologist consultation app.

## Education

**Universitas Gadjah Mada**                                                           *Aug 2023-Jul 2025*

*Master of Computer Science, 3,73/4.00*

- Thesis: Feature Insertion and Color Space Transformation for Malaria Parasite Stage Detection in Thin Blood Smear Images using Yolo and Faster R-Cnn
- Research Data Warehouse Trend Analysis: Built a data warehouse from Springer research publications and conducted trend analysis using advanced data visualization techniques. Managed end-to-end analytical workflows, including exploratory insights and learning visualization tools, to identify emerging research directions.
- Hotel Price Trend Mining from Travel Platforms: Implemented large-scale web scraping on Booking.com, Traveloka, and Tiket.com using Octoparse to collect hotel price, rating, and location data. Performed extensive data cleaning and analysis to uncover pricing patterns and proximity-to-city-center effects on customer preferences.

**Universitas Islam Indonesia**                                                         *Sep 2018-Jun 2022*

*Bachelor of Computer Science, 3,68/4.00*

- Undergraduate Thesis: Developing a Game that Teach Algorithmic Thinking for Education Purposes

## Certifications and Training

**Rakamin Academy**                                                                 *Oct 2024-Mar 2025*

*Data Scientist*

- Successfully completed a comprehensive Data Science program, covering Database Management Systems (DBMS), SQL, Jupyter Notebook, Python (NumPy, etc.), Statistics, Scikit-Learn (SKlearn), and Seaborn. Gained hands-on experience in Exploratory Data Analysis (EDA), Regression (Linear, Multivariable), Classification (Naïve Bayes, etc.), Ensemble Learning (Random Forest, XGBoost, etc.), Dimensionality Reduction (PCA), Clustering (KNN), Hyperparameter Tuning (GridSearchCV), and Deep Learning, along with completing tasks for each course.
- Automated CV Summarization and Scoring with NLP: Developed an NLP pipeline to summarize applicant CVs and evaluate candidate profiles across academic, social, and professional dimensions. Designed a scoring system (percentage-based) to quantify strengths, enhancing recruitment decision-making efficiency.

## Organizational Experience

**Ikatan Mahasiswa Indonesia Xiaozhuang IMIX**                           *Sep 2020 – Jun 2022*

*Human Resource Development Staff*

- Designed and executed student self-development initiatives, delivering comprehensive training in both technical (hard) and interpersonal (soft) skills.

- Managed performance assessments, coordinated events, and promoted community involvement to build an inclusive and high-performing organizational culture.

**JIWANA (Startup at UBIC Incubation)**                    *Jun 2022 – Dec 2023*
*CEO*
- Represented the startup by attending incubation events and strategic sessions, ensuring alignment with UBIC's goals and stakeholder expectations.
- Oversaw organizational flow and team coordination, providing leadership in planning, decision-making, and long-term direction.
- Contributed directly to the technical development of the mental health chatbot, including UI/UX design involvement to enhance user experience and product feasibility.

## Publications

**Exploring the Impact of Color Space in Malaria Parasite Detection using Deep Learning (Presented at AMLDS 2025 Tokyo, Japan)**
*AMLDS Conference, IEEE*
*Publication Link: https://ieeexplore.ieee.org/document/11159455*

## Project

**GitHub:** https://github.com/Shafriii
**Hak Kekayaan Intelektual: Deteksi Parasit Malaria : Aplikasi Deteksi Spesies dan Stadium Hidup Parasit Malaria sedang dalam proses didaftarkan dibawah UGM**

## Skills

Python, C++, C#, SQL, PHP, Machine Learning, CNN, YOLO, FRCNN, Computer Vision, NLP, BERT, AI, Data Visualization, Data Processing, Project Management, Mathematics, Algorithmic Analysis, Problem-Solving, Fast Learning, Communication, Collaboration