TAMAM FAJAR BRILIANSYAH

082132243442 | tamamfb01@gmail.com | www.linkedin.com/in/tamam-fajar-briliansyah
| https://github.com/ tamamfb

Jl. Mojo Klanggru Kidul No 84 Blok D-1 Surabaya

I am an active Computer Science student with a strong interest in data science, machine learning, and data driven decision making. Experienced in handling data processing pipelines, exploratory data analysis, and building predictive models in both academic and independent projects. Skilled in statistical analysis, Python based data science tools (Pandas, NumPy, Scikit-learn, TensorFlow/ PyTorch), and database management.

Work Experiences

Intelligent Computing and Vision Laboratory - Surabaya   May 2025 - Present
Laboratory Assistant

Our laboratory focuses on research in image data analysis for various applications, such as in the biomedical and industrial fields. Our research aims to model real-world cases and implement solutions that meet practical needs.

Lab Profile: [Laboratorium Komputasi Cerdas dan Visi - Departemen Teknik Informatika](#)

- Develop and implement image analysis models for biomedical and industrial applications
- Perform preprocessing and feature extraction from image data to support research
- Manage image datasets and develop annotation and labeling pipelines
- Contribute to the development of web-based systems for visualizing image analysis results
- Collaborate on research projects to solve real-world problems using computer vision and AI approaches
- Document, write clear reports, and package reusable utilities to keep the research codebase reliable.

Sepuluh Nopember Institute of Technology - Surabaya   Aug 2025 - Present
Machine Learning Teaching Assistant

- Assisted in designing and grading assignments on machine learning concepts such as regression, classification, and clustering.
- Guided students in using NumPy, Pandas, Scikit-learn, TensorFlow/PyTorch for data analysis and model building.
- Supported lab sessions by demonstrating data preprocessing, feature engineering, and model evaluation techniques.
- Create reproducible example notebooks and starter kits that standardize lab workflows and speed up student onboarding.
- Provided mentoring and consultation sessions to help students understand statistical methods and ML workflows.

Sepuluh Nopember Institute of Technology - Surabaya   Jan 2025 - Jul 2025
Data Structure Teaching Assistant

- Assisted lecturers in preparing and delivering materials on fundamental data structures such as arrays, linked lists, stacks, queues, trees, graphs, and hash tables.
- Guided students in implementing and analyzing algorithms with C++, focusing on complexity analysis.
- Supported lab sessions by providing code walkthroughs, debugging assistance, and best practices for problem-solving.
- Designed challenge problems and unit tests to evaluate mastery of time/space complexity and tricky edge cases.

Pemilu FH UPNV JATIM - Surabaya   Jan 2025 - Feb 2025
Full Stack Developer (Independent)

Developed a comprehensive and secure web-based voting system for the election of the President of the Student Executive Board (BEM) at the Faculty of Law, UPN "Veteran" Jawa Timur.

- Developed and maintained a web application end-to-end
- Designed a responsive and user-friendly interface
- Managed the server and database to support election data processing
- Optimized website performance to ensure fast loading times and an optimal user experience
- Introduced CI/CD with containerized deploys and basic monitoring to enable safe, low-downtime releases.
- Implemented authentication with role-based access control and audit logs to ensure data integrity and security.

Sepuluh Nopember Institute of Technology - Surabaya   Aug 2024 - Dec 2024
Fundamental Programming Assistant

- Assisted in teaching core programming concepts such as variables, control structures, functions, and object-oriented principles.
- Guided students in practical sessions using C, focusing on writing clean and efficient code.
- Provided support in debugging, problem-solving strategies, and applying programming logic to real exercises.

Education

Institut Teknologi Sepuluh Nopember - Surabaya, Indonesia   Jul 2023 - Present
Bachelor, 3.78/4.00

SMAN 5 SURABAYA - Surabaya, Indonesia   Aug 2020 – May 2023

Projects & Research

AI Powered Career Preparation System (Interview, CV Maker, Skill Matching) – **Surabaya**   2025

Research with Lecturer

We developed an integrated AI system designed to support job seekers through automated interview training, CV generation, and skill to job matching. The system combines multimodal analysis, NLP, and recommendation models to evaluate candidates and provide personalized career guidance.

- Handled video/image data to detect facial liveness, track expressions, and analyze engagement.
- Contributed to orchestrating different data streams (video, audio, text)
- Built an adaptive module to generate interview questions tailored to user profiles

Anime Face Generator - **Surabaya**   2025

Personal Project

I Developed a GAN model to generate synthetic anime faces. This project served as my first hands-on experience with Generative Adversarial Networks, focusing on understanding the training dynamics between generator and discriminator models.

- Build a DCGAN model to generate anime faces
- Implemented training pipeline with PyTorch
- Collected and preprocessed an anime face dataset for training, including normalization and augmentation steps.

PlastiCraft - **Surabaya**   2025

Group Project

PlastiCraft is a social media inspired platform that encourages sustainability by allowing users to share and explore creative projects made from recycled plastics. The application provides tutorials, community engagement features, and category-based filtering to make learning and inspiration accessible for everyone.

- Developed a social media platform using React.
- Designed interactive engagement features such as likes and comments

Menya麺屋 - **Surabaya**   2025

Group Project

I Developed a Japanese restaurant website using Laravel that integrates core e-commerce features with an AI powered chatbot. The system provides a seamless user experience from browsing menus to completing online orders and payments, while the chatbot offers personalized menu recommendations.

- Built web pages with responsive and user-friendly design.
- Implemented AI based chatbot capable of recommending dishes

KelasKu - **Surabaya**   2024

Group Project

I Built an online learning management system that facilitates teaching and learning activities for both lecturers and students. The platform was developed in one month as a collaborative project, enabling class enrollment, task management, and attendance tracking.

- Developed **c**lass enrollment system using unique codes provided by lecturers.
- Built features for assignment submission, grading, and progress tracking
- Created a user profile management system.

Organizational Experiences

Schematics ITS - **Surabaya, Indonesia**   2025

Director of Schematics NLC

Schematics is one of the biggest events in Surabaya that has the widest and most comprehensive target all over Indonesia.

- Responsible for overseeing the NLC sub-competition
- Managed and coordinated staff in designing logic-based competition problems
- Collaborated with other sub-divisions to ensure smooth execution of the event

HMTC ITS - **Surabaya, Indonesia**   2025

Student Resource Department

HMTC (Informatics Computer Engineering Student Association) is a student organization aimed at shaping individuals who are devout, have integrity, intellectual character, social awareness, and the ability to master and develop knowledge and technology in the field of Informatics and Computer Science.

- Collaborated effectively within a team environment
- Demonstrated strong time management skills
- Practiced macro-level management to oversee broader project objectives and team coordination

PSB ITS - **Surabaya, Indonesia**   2024

Data Management

- Managed and organized data of new students participating in PSB 2024
- Recorded and compiled attendance registration for PSB 2024

INCLENATION FTEIC ITS - Surabaya, Indonesia   2024

Data Management
- Managed and organized data of new students participating in INCLENATION 2024
- Coordinated group assignments for INCLENATION 2024

Skills

- **Soft Skills**: Critical Thinking, Collaboration, Time Management, Problem Solving, Communication
- **Hard Skills**:
  1. Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch)
  2. Data Manipulation & Analysis (SQL, Excel, Data Cleaning, Feature Engineering)
  3. Data Visualization (Matplotlib, Seaborn, Plotly)
  4. Machine Learning (Regression, Classification, Clustering, Deep Learning)