

MUHAMMAD SAID RAMADHAN PUTRA

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PROFILE

Undergraduate Informatics student at Universitas Muhammadiyah Surabaya with a specialized focus on **Computer Vision** and **AI/ML**. Recently **completed** a high-impact **internship at PT Telkomsat Bogor**, where I served as **Project Manager** for a **Face Recognition development project**. I excel at bridging the gap between complex algorithmic development and strategic project execution. With a proven track record in leading technical teams and a passion for **deep learning**, I am dedicated to building scalable, intelligent visual systems.

EDUCATION

Senior High School

Vocational High School for Computer Engineering and Networking

2020 - 2023

Universitas Muhammadiyah Surabaya

Undergraduated Student Bachelor of Computer Science

2023 – 2026 (1 – 6 semesters)

INTERNSHIP EXPERIENCE

PT Telkom Satelit Bogor – IT & Network Planning Division) | January 2025 – May 2025

Intern (Project Manager) – Edge AI Attendance System

- **Led the transition and migration of the Face Recognition system** from a web-based platform to localized Edge AI hardware.
- **Managed the end-to-end development of "Sleep/Standby" features using Finite State Machine (FSM)** to optimize power efficiency and device longevity.
- Supervised cross-functional coordination between Backend, Frontend, and System Design teams to ensure seamless hardware-software integration.
- Gained hands-on experience in project execution within a real construction environment

Intern (AI Engineer) – Web-Based Face Recognition Project

- **Developed a high-accuracy web application** for face recognition using **FastAPI** and **DeepFace**.
- **Implemented real-time Liveness Detection (anti-spoofing)** using MediaPipe to detect eye blinks, ensuring system security against photo-based fraud.
- **Integrated automated Text-to-Speech (TTS) audio feedback** for real-time user interaction and greeting.

Intern (Project Team Member) – GeoSpatial Project

- Contributed to the development and analysis of geospatial data solutions within Telkomsat's infrastructure.
- **Executed a comprehensive benchmarking of 10 unsupervised learning algorithms** (e.g., Birch, KMeans, DBSCAN, GMM, Spectral) on spatial GeoJSON datasets for flood disaster analysis.

- **Conducted feature engineering and variance-based selection**, testing model sensitivity across multiple parameter configurations to achieve optimal clustering performance.
- **Leveraged PCA 3D and t-SNE visualizations** to analyze high-dimensional spatial data, providing actionable insights into disaster-prone areas.
- Evaluated model robustness using **Silhouette Score and Davies-Bouldin Index**, identifying Birch as the most effective algorithm for geospatial segmentation.

ORGANIZATIONAL EXPERIENCE

Informatics Student Association

Position

Chairman of Association (2025 – 2026)

- Lead the executive board in managing academic and non-academic programs for 300+ informatics students.
- Championed AI and Machine Learning initiatives by bridging student interests with industry-relevant events, hackathons, and technical seminars.
- Oversee strategic planning, budget allocation, and cross-departmental synergy to enhance the department's digital ecosystem.

Jujitsu Self-Defense Student Activity Unit (UKM)

Position

Chairman of Association (2025 – 2026)

- Direct the overall operations, training schedules, and championship participation for the university's Jujitsu unit.
- Foster a culture of discipline and resilience while managing administrative compliance and external relations with regional sports federations.

SKILLS

- **Machine Learning:** Unsupervised Learning (Clustering), Model Evaluation, Feature Selection.
- **Libraries/Tools:** Scikit-Learn, Pandas, NumPy, GeoJSON, PCA, t-SNE.
- **Domain:** Geospatial Analysis, Disaster Mapping.
- **Tools & Software:**
 - **IDE/Interface App:** Visual Studio Code (VSCode), Xcode, Jupyter Notebook.
 - **Environment:** Anaconda.
 - **AI & Machine Learning:** Python (Primary), OpenCV, TensorFlow, PyTorch, Scikit-learn, DeepFace.
 - **Computer Vision:** Image Segmentation, Face Detection/Recognition, Feature Extraction, MediaPipe (Liveness Detection).

Project Management: Trello, Notion, Jira, Microsoft Project, GitHub (Version Control).

- **Web & Backend:** FastAPI, HTML/CSS (Tailwind), JavaScript.
 - **Project Management** FSM Logic, Team Coordination, GitHub, Trello/Notion.
- English (B2)
 - Mandarin (HSK 1-2)