# DIONISIUS SURYA JAYA

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## SUMMARY

Graduated Computer Science student at Universitas Brawijaya (GPA: 3.58/4.00) specializing in Machine Learning, Computer Vision, and Data Analytics pipelines. Proven experience building end-to-end ML workflows, NLP text classifiers, and statistical dashboards. Proficient in Python, Scikit-Learn, YOLOv11, Pandas, and SQL/relational data models.

## EDUCATION

**Brawijaya University** Bachelor • 3.58

Computer Science Malang, East Java, Indonesia • 2022 – 2026

## EXPERIENCE

**MEDEVA** Malang, East Java, Indonesia

Machine Learning Intern Jan 2026 – May 2026

- Engineered end-to-end clinical risk stratification pipeline processing BPJS healthcare records.
- Implemented NLP classification pipeline (TF-IDF + Logistic Regression) for Hypertension risk detection.
- Applied unsupervised K-Means clustering on clinical metrics to segment Diabetes Mellitus patient risk profiles.
- Deployed interactive diagnostic web app on Streamlit, reducing clinician record assessment time.

**BPS (Badan Pusat Statistik) Kota Malang** Malang, East Java, Indonesia

Data Analyst & Frontend Developer Sep 2025 – Nov 2025

- Validated, cleaned, and standardized municipal socioeconomic datasets from 10+ regional agencies.
- Built automated data processing scripts in Python/Excel to parse consumer price index spreadsheets.
- Engineered interactive analytics dashboard modules for civil servants and regional researchers.

**MMD FILKOM Universitas Brawijaya** Malang, East Java, Indonesia

Geospatial Data & Backend Support Jul 2024 – Aug 2024

- Digitized administrative boundary and infrastructure layers using QGIS and ArcGIS.
- Developed interactive WebGIS platform using Leaflet.js to visualize geospatial land-use distribution.

**Coding Camp by DBS Foundation** Malang, East Java, Inodnesia

Full-Stack Web Apprenticeship Feb 2025 – Jul 2026

- Developed modern, mobile-first responsive web apps in an agile team workflow.
- Implemented client-side caching, component modularity, and integration with third-party RESTful services.

## PROJECTS

**Clinical Risk Stratification Engine** 2026

- Developed predictive risk-scoring system on real-world clinical records with data cleaning and imputation pipelines.
- Evaluated models using Precision, Recall, and ROC-AUC metrics to ensure healthcare baseline compliance.

Live Demo

**License Plate Recognition System** 2026

- Trained YOLOv11 object detection model on custom Indonesian license plate dataset, achieving 95% mAP.
- Integrated bilateral filtering and CLAHE preprocessing pipelines to enhance plate character legibility under varied lighting.
- Built real-time inference pipeline handling both static image uploads and video streams.

Repository

**GitHub Star Notes & Knowledge Engine** 2026

- Built personal metadata search engine and Chrome Manifest v3 extension for indexing developer tools.
- Designed schema with SQLite/Prisma for sub-50ms local querying and full-text keyword search.

Repository

## TECHNICAL SKILLS

**Languages**

Python, SQL, TypeScript, JavaScript

**ML / AI & Data Science**

Scikit-Learn, YOLOv11, OpenCV, NLP (TF-IDF), K-Means Clustering, Pandas, NumPy

**Web & Backend**

Next.js, Node.js, RESTful APIs, SQLite, Prisma, Git, Docker (Basic)

## CERTIFICATIONS

**Belajar Dasar Pemrograman JavaScript** Mar 2025
Dicoding Indonesia

**Belajar Dasar Pemrograman Web** Feb 2025
Dicoding Indonesia

**Belajar Dasar Git dengan GitHub** Feb 2025
Dicoding Indonesia

**Pengenalan ke Logika Pemrograman (Programming Logic 101)** Feb 2025
Dicoding Indonesia

**Belajar Membuat Front-End Web untuk Pemula** Mar 2025
Dicoding Indonesia

**Financial Literacy 101** Apr 2025
Dicoding Indonesia

**Belajar Fundamental Front-End Web Development** Apr 2025
Dicoding Indonesia

**Belajar Back-End Pemula dengan JavaScript** May 2025
Dicoding Indonesia

**Belajar Pengembangan Web Intermediate** May 2025
Dicoding Indonesia

## PUBLICATIONS

**Classification of Mental Health Disorders and Neurodevelopmental Conditions Using BERT with Lexicon Feature Integration on Reddit Posts**

2026

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https://j-ptiik.ub.ac.id/index.php/j-ptiik/article/view/16700

## LANGUAGES

**Indonesia**

**English**