

# Marcellus Geraldio Florenta

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A proactive and **creative problem-solving** Computer Science student (BINUS) specializing in **Software Engineering** and **AI/ML**. I combine **big-picture thinking** with **technical adaptability** to build end-to-end applications, from full-stack AI websites (Flask, XGBoost) to complex hardware systems (C++, Arduino). As a **fast learner** and **collaborative team player** (proven in projects & HIMTI), I am now focused on deepening my **Machine Learning** and **Deep Learning** expertise via Coursera, Kaggle and Dicoding.

## Education

### BINUS University Bandung

Bachelor of Computer Science.

Bandung, Indonesia

Expected 2027

Relevant Coursework or Thesis: Software Engineering, Artificial Intelligence, Computer Vision in IoT, IoT Development & Architecture, OOP.

## Projects

### AI-Powered Career Predictor for Computer Science Student

Feb. 2025 - June 2025

Group Project - Full Stack & Machine Learning Developer

Developed a full-stack web application to predict career paths for Computer Science students using machine learning. Engineered a Flask API backend to serve an XGBoost classification model, which achieved 98%+ accuracy after comparing 5 different model architectures. Designed and built an interactive, responsive frontend using HTML, CSS, JavaScript, and Bootstrap 5.

### IoT-Enabled Precision Watering System for Enhanced Plant Fertility

Feb. 2025 – June 2025

Group Project - IoT Developer

Developed an autonomous watering system by programming an Arduino Uno in C++ to process real-time sensor data. Implemented control logic to automatically activate a water pump when sensor readings exceeded a threshold (sensor > 200). Successfully integrated the system with the Blynk API for real-time remote monitoring and control

## Leadership & Activities

### HIMTI BINUS Bandung

Bandung, Indonesia

#### Activities - Publication and Marketing Division

March 2025 – Present

As an Activities in the Publication & Marketing Division, I design and schedule monthly digital content for the @himdi.bandung social media account. I also research and write technical articles and news on the latest technology trends for publication on the official HIMTI blog. I actively contribute to branding strategies to increase engagement and visibility.

## Technical Skills

**Programming:** Python, C++, C#, JavaScript, SQL, HTML, CSS, C, Dart.

**Libraries & Tools:** TensorFlow, XGBoost, Scikit-learn, Pandas, OpenCV, Flask, Unity, Tkinter, Blynk, Git, VS Code, Colab.

**Language:** Indonesian Native, English Professional Working Proficiency (C1).

## Courses - Certificates:

- **Dicoding:** [Getting Started with Python](#), [Basic AI](#), [Basic Data Visualization](#).
- **Kaggle:** [Intro to Machine Learning](#).
- **Coursera:** IBM - Machine Learning with Python.
- **EF SET:** [English Certificate 61/100](#) (C1 Advanced).

## Additional Projects:

- **Python CSV Data Viewer** – Developed a desktop GUI application using Python, Tkinter, and OOP principles to sort, search, and export CSV files.
- **Kaggle ML Competitions** – Implemented classification (Titanic) and regression (House Prices) models, applying feature engineering and model comparison.
- **Hardware & Game Dev Projects** – Built an AR game prototype (Unity, C#) and an IoT fire/gas alert system.