# **ARYA WIRATAMA**

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Informatics Engineering student with a solid foundation in Python and SQL. Passionate about leveraging data for insights, with a focus on Data Science, Machine Learning, and Data Engineering. A proactive and enthusiastic learner recognized for strong analytical and problem-solving skills.

## **EDUCATION**

**Universitas Pelita Bangsa**, Cikarang Selatan *Bachelor's Degree, Informatics Engineering* GPA 3.80 of 4.00 Sep 2023 - Present

## **EXPERIENCE**

# Google Student Ambassador, Jakarta

Sep 2025 – Present

A program run by Google that selects key university students to act as brand and technology ambassadors, primarily focused on promoting and educating peers about Google's Al tools (such as Gemini) within their campus community.

- Created educational social media content to promote and explain Gemini and other Google technologies.
- Facilitated partnership between Google and university to strengthen engagement and outreach.
- Managed a campus technology community to foster collaboration and digital innovation.

# Computer Lab Assistant, Cikarang Selatan

May 2024 – Present

A university program that assists students during computer laboratory sessions by providing technical support, maintaining lab equipment, and ensuring effective learning environments.

- Delivered timely technical support to students, resolving various technical issues and errors during lab sessions.
- Installed and configured software needed for practical activities.
- Managed and updated announcements on the official practicum website (WordPress), ensuring students had up-to-date information.
- Troubleshot hardware, software, and network-related problems.
- Administered and curated content for the Computer Lab Assistant's official Instagram Account.

## **PROJECTS**

# Fakedpy - Python Library

Mar 2025

Initiated and developed an open-source Python library that generates realistic fake data for testing, prototyping, analytics, and simulations. Supports multiple output formats (CSV, JSON, Excel, Parquet) and localization options, including Indonesian. According to <u>PePy statistics</u>, Fakedpy has already been downloaded over **3,000** times worldwide.

#### FastDC - Python Library

Apr 2025

Initiated and developed **FastDC**, an open-source Python library designed to simplify and accelerate the creation of Discord bots. The library provides built-in features such as command categories, moderation (kick/ban/clear), auto-reply, Al chat integration, training from custom datasets, event logging, and supports multiple Al providers (e.g., Groq, OpenAl). According to <u>PePy statistics</u>, FastDC has already been downloaded over **4,000 times worldwide**.

## **Discord Automation - Automation Discord with Selenium**

Sep 2025

Developed a Python project that automates various activities on Discord using Selenium. The system can log in automatically, navigate between servers and channels, send messages, join voice channels, chat with friends, create new servers from templates, and join servers via invite links.

#### RillChat - Real Time Mobile Chat with Al Assistant

Mar 2025

Developed a real-time mobile chat application designed for campus communication. The app enables instant messaging between users and integrates an Al assistant to help answer campus-related queries. Built with Firebase for authentication and real-time database, and includes features for text and image messaging as well as Al-powered responses using Gemini API.

#### Trello Automation - Automation Trello with Selenium

Aug 2025

Developed a Python automation project that uses Selenium to automate various tasks on Trello, including logging in, creating boards, adding lists, and managing cards through browser-based automation.

# **E-Commerce Scraping - Scraping Data**

Aug 2025

Developed a Python script utilizing BeautifulSoup (BS4) and lxml to perform focused web scraping of product and pricing data from a major e-commerce platform. The project concentrated on extracting structured information (such as product names, prices, ratings, and seller details) from complex HTML structures.

# **Barra - Linear Regression from Scratch**

Aug 2025

Developed a Python package implementing linear regression algorithms from scratch, enabling dataset loading, model fitting, prediction, and evaluation (R<sup>2</sup>, MAE, MSE, RMSE) without relying on high-level libraries.

# TetanggaMasaGitu - KNN from Scratch

Oct 2025

Developed a Python package that implements the K-Nearest Neighbors algorithm for classification from scratch, without relying on high-level machine-learning libraries. The implementation supports distance calculation (Euclidean), neighbor voting, and evaluation on standard datasets (e.g., Iris).

## **Aleams - Telegram Bot (Note Management)**

Jan 2025

Developed a multifunctional Telegram bot using Python that serves as a CRUD (Create, Read, Update, Delete)-based data management system for personal note-taking. The project integrates the Groq Al API with the Llama model to provide a responsive Al assistant feature, while utilizing MySQL as the database system for persistent data storage.

# **Examination - Online Exam System**

Mar 2025

Developed a secure, full-stack Online Examination Web Application using CodeIgniter 4 (PHP) and MySQL. The system features a robust Admin Panel for managing users, exams, and multiple-choice questions (MCQs), alongside a participant interface with automatic timers.

# **Stams - Statistics Package**

Sep 2025

Developed a fundamental Python package, Stams, designed to perform essential statistical calculations efficiently. The library provides direct functions for key descriptive statistics, including Mean, Median, Modus, Range, Standard Deviation, and Variance (Population and Sample).

# **Life Expectancy - Linear Regression Prediction**

May 2025

Developed and implemented a Python-based Multiple Linear Regression model to predict Life expectancy based on several independent variables. The project encompassed data cleaning, Exploratory Data Analysis (EDA), statistical feature selection to identify significant predictors, and robust model construction using Scikit-learn.

# Salary - Linear Regression Prediction

May 2025

Developed and implemented a Simple Linear Regression model in Python to accurately predict an individual's

Salary based on their Years of Experience using a public dataset. The methodology involved data preprocessing, visualization of the linear relationship, model training, and performance evaluation.

# **URL Shortener - Flask Web Development**

Feb 2025

Developed a URL Shortening Service using Python to convert long URLs into short, manageable links. The project involved designing the logic for generating unique, collision-free short codes and implementing the system for handling redirects.

# **Discord Bot AI - AI Chatbot**

Jan 2025

Developed a Discord Bot integrated with the Large Language Model (LLM) API using Python to establish real-time, high-speed conversational AI capabilities. The project focused on building the bot architecture, configuring efficient API interactions, and successfully integrating the LLM for rapid response generation.

#### **COURSES & CERTIFICATION**

- Data Analysis with Python | IBM | 2025
- Python | Kaggle | 2025
- Python | Hackerank | 2025
- Introduction to Cybersecurity | Cisco | 2025
- Gemini Certified Student | Google | 2025
- Master Python Web Scraping & Automation using BS4 & Selenium | Udemy |
  2025
- Master of Essential C++ Programming Beginner to Advanced | Udemy | 2025
- Mastering the Basics of Git: A Step-by-Step Guide | Udemy | 2025
- Javascript Fundamental to Advanced: Full Stack Development | Udemy | 2025
- Python from Zero-to-Hero | Udemy | 2025
- Completed Wordpress Website Developer Course | Udemy | 2025
- 2025 Rust Programming for Beginners | Udemy | 2025
- Linux Security for Beginners | Udemy | 2025
- Belajar Dasar Al | Dicoding | 2025
- Memulai Pemrograman dengan Python | Dicoding | 2025
- Belajar Dasar Visualisasi Data | Dicoding | 2024
- Fundamental Front-End Web Development 1 | Coding Studio | 2024
- Alibaba Cloud Certification | Alibaba | 2024
- Belajar Dasar HTML | Codepolitan | 2024
- Mini Course Data Analysis | Revou | 2023

## **SKILLS & LANGUAGE**

• Programming : Python, C++, C#, Javascript, PHP, Java, Rust

Database : MySQL, MariaDB, Firebase

Framework : Codeigniter 4, Laravel, React

Library : Pandas, Numpy, Matplotlib, Scikit-Learn, Pytorch, Flask, Selenium, Beautiful Soup

Microsoft : Office 365

Personal Skills : Critical Thinking, Problem Solving

• Language : Indonesia, English