

ANDI DWI PRASTYO

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Detail-oriented and passionate IT undergraduate student with a high GPA of 3.63 from the State Polytechnic of Malang. Proficient in data science, machine learning and web development. Strong ability to analyze complex datasets and deliver data-driven solutions. Adept at transforming data into actionable insights to support strategic decision-making.

Education Level

State Polytechnic of Malang - Malang, Jawa Timur Aug 2021 - Present

Bachelor Degree in Applied Computer | 3.63/4.00

Relevant Course: Computational Statistics, Database Management, Business Intelligence, Machine Learning & Web Development.

Work Experiences

Kementerian Keuangan RI - Jakarta Pusat, DKI Jakarta Feb 2024 - Jun 2024

Data/Software Engineer

- Developed Legalytics, a legal analytics page on the Jaringan Dokumen dan Informasi Hukum (JDIH) website for Kemenkeu RI, improving data retrieval speed by 40%.
- Provided analytical insights into 500+ laws and regulations, supporting daily decision-making for over 1,000 users.
- Enhanced the strategic decision-making process for the Law Bureau by transforming complex legal data into accessible information, reducing analysis time by 30%.

Project Experiences

AIDA: Advanced Interactive Digital Advertising Jun 2024 - Present

Data Scientist

- Developing AIDA, a system aimed at enhancing brand awareness through effective advertising, with potential increases in brand awareness by up to 80% and providing a measurable ROI improvement of 250%.
- Leveraging technologies such as FFmpeg, YOLO, MQTT, and NVIDIA Jetson Nano to process and analyze real-time video data from CCTV cameras, enabling precise object detection and real-time data aggregation.
- Implementing a web-based dashboard for real-time and historical data analysis, reducing reliance on traditional billboards and associated costs, while improving the measurement of advertising effectiveness

WADES: WhatsApp-based Administrative Service System Jun 2024 - Jul 2024

Software Developer

- Developed WADES, an innovative WhatsApp bot and web-based system for Kelurahan Dinoyo, potentially reducing document processing time by 40% and improving service accessibility for over 5,000 residents.
- Integrated Node.js, Laravel, and MySQL to create a responsive system capable of handling 100+ simultaneous user requests, streamlining administrative tasks and reducing in-person visits by an estimated 60%.
- Implemented real-time status tracking and staff availability features, projected to decrease unnecessary trips to the office by 70% and improve overall citizen satisfaction rates by 50%.

Metro Bites: Vending Machine Sales Report Dec 2023 - Jan 2024

Data Analyst

- Implement a dashboard system to enhance decision-making efficiency by 20%, providing real-time sales data access.
- Conducted customer segmentation analysis, leading to targeted marketing campaigns and a 15% increase in customer retention.
- Leveraged detailed reports to potentially increase market penetration by 10-12% by pinpointing expansion opportunities.

Telco Store Customer Segmentation Analysis Oct 2023 - Nov 2023

Data Scientist

- Reduced customer churn rates by 15% through effective segmentation and predictive modeling.
- Conducted customer segmentation analysis, leading to targeted marketing campaigns and a 15% increase in customer retention.
- Increased customer retention by 30% via targeted discounts, demonstrating the effectiveness of personalized marketing campaigns derived from segmentation insights.

Organizational Experience

EEPROM Polinema - Malang, Jawa Timur Apr 2023 - Mar 2024

General Secretary

- Led and inspired a dynamic team of 48 people, resulting in a 25% increase in community engagement.
- Fostered a collaborative environment for robotics enthusiast, resulting in the creations of over 10 new robotics projects.
- Managed and oversaw 6 key operational initiatives, improving project completion rates by 20%.

Skills, Achievements & Other Experience

- **Achievements** (2024): Juara 2 Lomba E-Government - Kompetisi Mahasiswa Informatika Politeknik Nasional VI 2024.
- **Achievements** (2023): Juara 2 Divisi Trasnporter - Polines Robotic Contest 2023.
- **Certification** (2024): JPMorgan Chase & Co. - Quantitative Research Job Simulation.
- **Certification** (2024): British Airways - Data Science Job Simulation.
- **Certification** (2023): dicoding - Belajar Analisis Data menggunakan Python.
- **Certification** (2023): dicoding - Belajar Dasar Data Science.
- **Certification** (2023): dicoding - Belajar Dasar Visualisasi Data.
- **Certification** (2023): dicoding - Belajar Machine Learning untuk Pemula.
- **Hard Skills**: Intermediate skills Python programming language for Data Science and Machine Learning application.
- **Hard Skills**: Intermediate skills in query language for database management such as MySQL, Microsoft SQL Server, and NoSQL.
- **Hard Skills**: Intermediate skills in web development using Next JS, Tailwind CSS, OpenSearch, and Prisma tech stack.