

AZHAR DZAKWAN AZIZI

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Depok, Indonesia

Recent graduate in Robotics and Artificial Intelligence Engineering with practical experience in data analysis, machine learning. Skilled in designing automation systems and implementing AI solutions that improve efficiency. Passionate about AI-driven innovation and problem-solving in dynamic environments.

EDUCATION

Universitas Airlangga, Surabaya

Aug 2020 – Dec 2024

Bachelor of Robotics and Artificial Intelligence Engineering, 3.66/4.00

- Thesis: Design And Development Of A Mobile Robot With Path Planning Algorithm To Improve The Effectiveness Of Mobile Robots In Mission Execution
- Relevant Coursework: Machine Learning, NLP, Data Structure, Python

SKILLS

- **Programming:** Python, SQL, JavaScript
- **Data Analysis & Visualization:** Pandas, NumPy, Seaborn, Tableau, Looker Studio, Microsoft Excel
- **Machine Learning & AI:** Scikit-learn, Hugging Face Transformers, OpenCV
- **Databases:** MySQL, MariaDB
- **Tools & Others:** Docker, Git, Jupyter Notebook
- **Languages:** Indonesian (Native), English (Professional)

PROFESSIONAL EXPERIENCE

Intern AI Analyst | AMANA Solutions

Nov 2025 – Present

- Exploring How AI help company to build Knowledge Management System.
- Building Agentic AI.
- Finding the most efficient way to use AI for Knowledge Management.

IT Support | PT Delta Mate Indonesia

Jul 2025 – Oct 2025

- Using Snipe-IT Software and deploy it Using Docker to manage IT Assets.
- Responsible for Maintaining IT Assets and Software Installation.
- Using Pandas, Python to re-arrange Excel Tables to Upload monthly payroll data.

IoT R&D Engineer Intern | PT ARIA AGRI Indonesia

Aug 2022 – Dec 2022

- Built IoT-based automated watering system, improving irrigation efficiency.
- Collected and analyzed sensor data for optimizing water usage.
- Configured Blynk IoT dashboards for remote data visualization and control.

Sales Admin | PT Chelatama Perkasa

Dec 2024 – Apr 2025

- Managed customer and project data to ensure accuracy in pricing and timelines for construction projects.
- Created and maintained quotations and sales reports, improving pricing accuracy and reducing errors by 15%.
- Coordinated with construction team using data-driven scheduling, ensuring project milestones were met on time.
- Built and updated Excel-based tracking sheets, enabling better visibility of project progress and customer status.

PROJECTS

Autonomous Mobile Robot with A-Star Path Planning | Bachelor Thesis Project

- Developed a self-driving mobile robot utilizing odometry data for navigation.
- Designed and implemented A-star search algorithm in Python, enabling the robot to generate closest distance routes.
- Integrated rotary encoder and ultrasonic sensors for real-time position tracking and obstacle avoidance.
- Conducted multiple iterations of algorithm testing and performance evaluation, ensuring robustness in mission execution.

Podcast Summarization using Wav2Vec & BART | Data Science Project

- Processed and segmented audio data into 30-second intervals using Librosa for efficient model input.
- Converted speech to text using Whisper ASR model, achieving 92% transcription accuracy.
- Applied Hugging Face BART transformer model to summarize transcripts.
- Built an automated pipeline for audio preprocessing → transcription → summarization, improving workflow efficiency.

Sales Analysis & Inventory Optimization Dashboard

- Processed and cleaned 1000+ sales and inventory records using Python (Pandas) and Excel to ensure data accuracy and consistency.
- Developed interactive Tableau dashboards to visualize key metrics such as sales trends, inventory levels, and top-performing products.
- Implemented data-driven purchasing strategy by identifying top 10 best-selling items, leading to an estimated 15% improvement in stock availability.
- Automated sales report generation process, reducing reporting time from 2 hours to 15 minutes.

COURSES

- Excel Skills for Business (Coursera)
- SQL Fundamentals (W3Schools, SQLBolt)
- Tableau Dashboard Development (Self-Learning)