ARIZAL ANSHORI

arizalanhr34@gmail.com | 089501435572 | https://www.linkedin.com/in/arizal-anshori-888b6b241

EXECUTIVE SUMMARY

Final-year Electrical Engineering student with hands-on experience in developing machine learning algorithms and completing data science projects. Graduate of Bangkit Academy 2024 by Google & GoTo with hands-on experience in ML, Computer Vision, and IoT. Skilled in Python, TensorFlow, and SQL, with proven ability to deliver AI-driven solutions that increase efficiency and reduce operational costs.

EDUCATION

Bachelor of Electrical Engineering, University of Singaperbangsa Karawang

Aug 2022 – Present

- Current GPA: **3.55/4.0**
- **Relevant Courses**: Algorithms and Programming, Introduction to Digital Literacy, Blockchain and Cloud Computing, Artificial Intelligence and Data Analytics, Digital Systems, Electrical Circuits, Digital Literacy Final Project.
- Expected Graduation: **2026**

SKILLS

- **Programming & Data:** Python, SQL, C++, JavaScript, Pandas, NumPy, Scikit-learn
- **Machine Learning & AI:** TensorFlow, Pytorch, Keras, Flask, YOLOv8, NLP, Computer Vision, Deep Learning, Model Deployment
- **Data Visualization:** Power BI, Matplotlib, Seaborn
- **IoT & Embedded Systems:** Arduino, ESP32, IoT Prototyping, Sensor Integration
- **Software Engineering:** RESTful API, Node.js, Express.js, Git
- **Soft Skills:** Project Management, Critical Thinking, Statistical Analysis, Communication of Insights, Problem-Solving, Experimentation, Team Leadership

CERTIFICATIONS & PROFESSIONAL TRAINING

- Natural Language Processing in TensorFlow – DeepLearning.AI, Nov 2024
- Convolutional Neural Networks in TensorFlow – DeepLearning.AI, Oct 2024
- Supervised ML: Regression & Classification – DeepLearning.AI & Stanford, Oct 2024
- Advanced Learning Algorithms – DeepLearning.AI & Stanford, Oct 2024
- Unsupervised Learning, Recommenders, Reinforcement Learning – DeepLearning.AI & Stanford, Oct 2024
- Introduction to TensorFlow for AI, ML, and DL – DeepLearning.AI, Oct 2024
- Linear Algebra for ML & Data Science – DeepLearning.AI, Oct 2024
- Using Python to Interact with the OS – Google, Sep 2024
- Crash Course on Python – Google, Sep 2024

PROJECT EXPERIENCE

Computer Vision Developer (Project: License Plate Detection)

Sep 2023 – Dec 2023

- Trained YOLOv8 object detection model on 1,000+ labeled images, reaching 95% accuracy and 92% mAP.

- Automated inference pipeline using Python, reducing manual detection time by 80%.

IoT Engineer (Project: Automatic Gate Prototype)

Feb 2024 – Jul 2024

- Designed and programmed an automatic gate prototype using Arduino IDE and microcontrollers, achieving 80% improvement in operational efficiency.
- Led a team of 5 members, ensuring accurate wiring and component integration following industry standards.
- The prototype fully automated gate operation, eliminating 100% of manual effort.

Machine Learning Engineer (Project: Smart Agri-Fishery Solution)

Jul 2024 – Dec 2024

- Built ML models with TensorFlow to classify water quality (pH, turbidity, temperature) using >1,000 collected data points.
- Developed predictive features for harvest estimation and feed optimization, enabling up to 25% feed cost savings.
- Delivered practical features for fish farmers, including water monitoring, harvest estimation, and operational cost calculators for efficiency.

Backend Developer (Project: AI Chat API)

Aug 2025 – Aug 2025

- Built a RESTful API using Express.js to handle chat interactions with Google Gemini 2.0 Flash model.
- Designed secure environment configuration with .env for API key management, eliminating 100% of hard-coded credentials and reducing API-related errors by 40%.
- Implemented input validation and error handling, resulting in a 80% improvement in AI response reliability and system robustness.
- Integrated CORS and JSON middleware to enable smooth communication with frontend clients.
- Delivered structured AI responses in markdown format, enabling easy rendering on web applications.

ORGANIZATIONAL EXPERIENCE

PKKMB & LDKM Organizing Committee – Equipment Division

Aug 2023 – Nov 2023

- Oversaw technical equipment setup and logistics for orientation events involving 500+ new students, achieving 100% readiness with zero major disruptions.

Electrical Engineering Student Association – Community Service Division

Mar 2024 – Dec 2024

- Led educational programs that reached **30+ students** in underserved communities.
- Coordinated cross-team initiatives, increasing program participation by **40%** compared to previous year.

HOBBIES & ACTIVITIES

Sports, Reading, Learning new things, Research, & Coding

PORTFOLIO

- **GitHub Repository:** https://github.com/kyrazz2602
- **Kaggle: https://www.kaggle.com/arizalkyrazz**
- **AquaSmart Fisheries Project: GitHub Project Link**
- **Application Demo (Video): Drive Link**