

MUHAMMAD AZRI BIN MAHANIF

019-447 3484 | azrimahanif@gmail.com

www.linkedin.com/in/azri-mahanif

CAREER SUMMARY

AI and Machine Learning Engineer with over 5 years of experience in developing and deploying machine learning models, designing scalable data ecosystems, and implementing AI-driven solutions. Proficient in TensorFlow, Keras, PyTorch, and YOLO for deep learning and computer vision applications. Skilled in data preparation, model training, optimization, and deployment on cloud platforms such as Google Cloud and AWS. Experienced in collaborating with cross-functional teams to deliver AI-powered insights and automation that drive business value. Passionate about leveraging AI to solve complex problems and enhance operational efficiency.

TECHNICAL SKILLS

Machine Learning & Deep Learning: TensorFlow, Keras, PyTorch, YOLO, Scikit-learn, MLflow, Model Optimization, Data Augmentation, Object Detection, Image Classification

Data Engineering & Cloud: Google Cloud Platform (BigQuery, Dataflow, Cloud Storage), AWS (S3, Glue), Azure (Data Factory, Synapse), ETL, Data Pipelines, mage.ai

Programming: Python, SQL, .NET, Node.js, C#

Data Analysis & Visualization: Power BI, Tableau, PowerApps

DevOps & CI/CD: Git, Docker, Kubernetes, Jenkins, GitHub Actions

Automation & Scripting: Power Automate, Bash, Python scripting

Additional: Data Governance, Lean Six Sigma Yellow Belt, Problem Solving, Collaboration

PROFESSIONAL EXPERIENCE

Data Engineer & AI/ML Engineer

AAFIYAT TECH SDN BHD, Alor Setar, Kedah May 2024 – Present

- Designed and implemented scalable data ecosystems supporting real-time data streaming and AI model data pipelines.
- Built and optimized data warehouses on Google BigQuery to support machine learning workflows.
- Automated data pipelines using mage.ai to improve data accuracy and processing efficiency for AI applications.
- Developed and deployed a Large Language Model (LLM) chatbot project enabling users to receive personalized training recommendations and company policy information. Utilized n8n for workflow automation, Qdrant vector database for semantic search, OpenAI API, and local LLM model deployment.
- Led AI surveillance project using CCTV feeds and YOLO object detection to monitor staff activities and office environment for security and operational insights.
- Collaborated with data scientists and ML engineers to deliver data solutions enabling advanced analytics and AI initiatives.
- Established data governance frameworks ensuring data quality and compliance for AI model training datasets.

Product Development Engineer

Intel Microelectronic (M) SDN BHD, Bayan Lepas, Pulau Pinang Oct 2020 – May 2024

- Developed image preprocessing modules using Keras for data augmentation including rotation, shifting, shearing, zooming, and normalization.
- Designed workflows for dataset preparation supporting object detection and image classification model development.
- Automated data visualization dashboards with Power BI to monitor model performance and operational metrics.
- Conducted root cause analysis on production data to improve hardware reliability impacting AI system performance.

Software Engineer

Enovision SDN BHD, Petaling Jaya, Selangor Oct 2019 – Sept 2020

- Led AI research and development to integrate machine learning capabilities into vision inspection software.
- Developed vision inspection systems with pattern matching, OCR, and QR code reading using .NET.
- Provided technical support and onsite installation for AI-enabled vision systems.

Machine Learning Intern

Aerodyne Geekhub SDN BHD, Petaling Jaya, Selangor June 2018 – Sept 2018

- Assisted in developing and optimizing machine learning models using TensorFlow and YOLO.
- Prepared and pre-processed datasets with Pandas for model training and validation.
- Configured Nvidia Jetson development kit for autonomous drone AI applications.
- Integrated DJI SDK for drone-related machine learning projects.

REFERENCES

Mr. Khairul Izwan

- *(Head of Infra, Aafiyat Tech)*
- 013-5053123

Mr. Mohd Hanis Tajuddin

- *(Tech Lead, Aafiyat Tech)*
- 013-4671296