

Mohammed Asaf CT

AI Data Engineer

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Mankada, Malappuram, Kerala, India

PROFESSIONAL SUMMARY

AI/ML Engineer with experience across machine learning, computer vision, data analytics, AI image/video generation, and healthcare information system development. Experienced in building data pipelines, ML models, dashboards, AI-generated visual content, and production-oriented solutions. Strong foundation in Python, SQL, computer vision, NLP, Power BI, and modern AI tools, with hands-on experience working in AI/ML and cross-functional product environments.

SKILLS

Programming	Python, SQL, C
ML & Data	Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Seaborn
NLP & Computer Vision	TF-IDF, Text Preprocessing, Tesseract OCR, Object Detection, Image Enhancement
Generative AI	AI Image Generation, AI Video Generation, Prompt Engineering, Visual Content Creation
MLOps & Development	Git, GitHub, Docker, GitHub Actions, CI/CD, Experiment Tracking, Model Packaging, Streamlit
Analytics & Cloud	Power BI, Excel, Azure ML, Azure Data Factory, Raspberry Pi
Design & AI Tools	Figma, Midjourney, Leonardo AI, Gemini, VEO 3

EXPERIENCE

AI Data Engineer <i>CuraNova Global Med LLP, Kerala</i>	Jun 2026 – Present <i>Full-time / On-site</i>
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- Contributing to AI/ML initiatives within the healthcare technology environment at CuraNova AI.
- Worked on Hospital Information System (HIS) development, contributing to system workflows and implementation of healthcare-focused software modules.
- Collaborating with the AI/ML team on assigned development, testing, and implementation tasks.
- Applying Python, data processing, AI/ML concepts, and software development practices to practical business and healthcare use cases.

AI Image/Video Artist <i>Peblo</i>	Nov 2025 – May 2026 <i>Internship</i>
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- Created AI-generated images and video content for assigned creative and brand-focused projects.
- Developed and refined prompts for consistent characters, scenes, products, and visual styles using generative AI tools.
- Worked on visual storytelling, image enhancement, creative iterations, and production-ready AI assets.
- Collaborated with the team to execute assigned AI image/video generation tasks and maintain visual consistency across deliverables.

AI/ML Intern <i>Aesthetix Edu-Tech</i>	Jun 2025 – May 2026 <i>On-site</i>
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- Developed Pandas-based data pipelines that cut data loading times by 25% and accelerated model training cycles.
- Engineered regression, classification, clustering, and deep-learning models using scikit-learn, TensorFlow, and PyTorch, achieving up to 92% accuracy.
- Collaborated using Git/GitHub, Jupyter/Colab, and SQL to improve deployment efficiency by 20% and standardize experiment workflows.
- Led preprocessing, feature engineering, and normalization to enhance model performance and reduce compute time by 15%.

Power BI & Azure Cloud Intern <i>Edunet Foundation</i>	Nov 2023 – Dec 2023 <i>Bangalore, India</i>
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- Produced executive-ready Power BI dashboards with RLS and mobile layouts, reducing ad-hoc reporting requests by 35%.
- Worked with Azure ML and Data Factory pipelines covering ingestion, training schedules, and monitoring.

Data Science & Cloud Intern <i>Edunet Foundation</i>	Oct 2023 – Dec 2023 <i>Bangalore, India</i>
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- Analyzed and visualized 10,000+ records using Pandas, NumPy, Matplotlib, and Seaborn, improving decision-making efficiency by 25%.
- Performed data cleaning and EDA, reducing missing-value issues by 30%.

- Built automated KPI refresh pipelines using Power BI and Data Factory, shortening reporting cycles by 40% and reducing manual work by 30%.
- Delivered cloud-based data solutions that improved scalability and reduced operational costs by 20%.

PROJECTS

Hospital Information System (HIS) Development

Healthcare Software

- Contributed to the development of a Hospital Information System focused on supporting hospital workflows and digital operations.
- Worked on system requirements, workflow implementation, testing, and development tasks as part of a healthcare technology team.

Fake Product Review Detection

Machine Learning | NLP | Streamlit

- Developed an AI system to classify 10,000+ e-commerce reviews as fake or real using NLP preprocessing, TF-IDF, and Logistic Regression.
- Tuned the model for balanced precision/recall with confidence scoring and validated performance using cross-validation and holdout tests.
- Built an interactive Streamlit application for real-time analysis, explainable indicators, dashboards, and bulk CSV detection.

License Plate Detection System

Python | OpenCV | Tesseract OCR | Raspberry Pi

- Engineered a portable license-plate detection and OCR pipeline reaching 92% accuracy on 1,000+ images with less than 2 seconds average inference.
- Implemented image enhancement, plate localization, OCR integration, and lightweight deployment on Raspberry Pi.

EDUCATION

B.Tech in Computer Science and Engineering
Ernad Knowledge City Technical Campus

2021 – 2025
Manjeri, Kerala

COURSES & CERTIFICATIONS

- NSDC Certified AI & ML Program – Aesthetix Edu-Tech, Ernakulam, Kerala
- Building Data Analytics Application with Cloud – Edunet Foundation, AICTE Next Gen Employability Program 2023–24
- NASA International Space Apps Challenge – Galactic Problem Solver, Oct 2024

EXTRA-CURRICULAR

- National Service Volunteer, Oct 2022 – Mar 2023 – Organized community initiatives and led outreach programs.