

# MOHAMMED FALAHI

## Artificial Intelligence & Machine Learning Engineer

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Dubai, UAE — **Available for Immediate Joining**

### PROFESSIONAL SUMMARY

Artificial Intelligence and Machine Learning Engineer with hands-on experience designing and deploying **production-ready AI systems**. Expertise in **Machine Learning, Deep Learning, NLP, Computer Vision, Agentic AI Systems, Large Language Models (LLMs), and Retrieval-Augmented Generation (RAG)**. Proven experience in developing **time-series forecasting models, AI automation platforms, RESTful APIs, and data pipelines**. Strong background in **feature engineering, model evaluation, healthcare data workflows, and scalable AI deployment**. Familiar with **MLOps, Docker, cloud platforms (AWS)**, and model monitoring. Currently based in Dubai with immediate availability. Experienced in building **agentic workflows** where autonomous AI agents execute, coordinate, and monitor multi-step tasks.

### CORE COMPETENCIES

- **Machine Learning, Deep Learning**, Predictive Analytics
- **Time-Series Forecasting**, Regression Models
- **NLP, LLMs, RAG**, HuggingFace Transformers
- **LangChain, Agentic AI**, Autonomous Agents, Tool Calling, Multi-Step Reasoning
- **Computer Vision**, CNNs, Multimodal Processing
- **Data Engineering**, Feature Engineering, Model Evaluation
- **FastAPI, Flask, REST API Development**
- **Model Deployment, MLOps**, Automation Systems
- **Healthcare AI**, Institutional AI Systems

### PROFESSIONAL EXPERIENCE

#### Artificial Intelligence (R&D) Intern

*Sep 2025 – Dec 2025*

*Boehm Tech LLP, Calicut, India*

- **MyG Sales Assistant – AI-Powered Retail Intelligence** *Sep 2025*
  - Built a bilingual AI sales assistant using **RAG, LangChain**, and **Gemini LLMs**.
  - Implemented **intent detection, entity extraction**, fuzzy matching, and fallback logic.
  - Integrated **MongoDB, REST APIs**, and multi-platform interfaces (web, CLI, voice).
  - Improved response accuracy and reduced hallucinations using knowledge-grounded retrieval pipelines.
- **Hybrid Demand Forecasting System (Healthcare Inventory)** *Dec 2025*
  - Developed a **hybrid LSTM-XGBoost time-series forecasting model**.
  - Applied advanced **feature engineering**, retraining pipelines, and **explainable AI analytics**.
  - Optimized weekly medicine demand forecasting for healthcare inventory planning.

### PROJECTS

#### VidScribe – AI-Powered Video-to-Presentation System

*Feb 2025*

- Built an AI pipeline converting video into structured **PowerPoint presentations** and **PDF summaries**.
- Implemented **Speech-to-Text, NLP summarization**, and **computer vision extraction**.
- Designed scalable processing pipeline for academic and training content reuse.
- Technologies: **Python**, NLP, Computer Vision, LLMs

#### Payroll - Workforce Management and Productivity Tracking System

*Nov 2025*

- Built AI-powered analytics platform using **FastAPI, MongoDB, React**, and **Electron**.
- Processed raw logs into **daily and monthly productivity intelligence**.

- Integrated **LLaMA-3** and **Groq LLMs** for performance summaries.

**VidyaConnect – Academic Communication Assistant**

- Built an **agentic AI system** that autonomously initiates **phone calls and SMS notifications** to parents for attendance and academic alerts.
- Implemented **decision-driven agents** for channel selection, context-aware message generation, and retry handling.
- Reduced manual administrative effort through **LLM-powered workflow automation**.

**Seva Kraant – Smart Workforce Assignment System**

*Dec 2024*

- Developed ML-based task assignment system using **BERT** for workforce skill matching.
- Implemented NLP pipelines for semantic similarity and decision automation.
- Built backend services using **Python** and **Flask**.
- Technologies: **Python**, Flask, BERT

**Traffic Sign Board Detection**

*Aug 2024*

- Developed CNN-based traffic sign recognition model for real-time inference.
- Performed preprocessing, data augmentation, and **model evaluation**.
- Integrated live video stream using **OpenCV**.
- Technologies: **TensorFlow**, **OpenCV**

EDUCATION

**B.Tech in Artificial Intelligence and Data Science**  
MES College of Engineering, Kuttippuram, Kerala, India  
CGPA: 6.7

May 2025

TECHNICAL SKILLS

- Programming: **Python**, JavaScript, SQL, R, Bash
- AI/ML: **Agentic AI**, LLMs, RAG, **TensorFlow**, PyTorch, NLP, Computer Vision, HuggingFace
- Data: **Pandas**, **NumPy**, Matplotlib, **MongoDB**, MySQL
- Backend: **FastAPI**, **Flask**, REST APIs
- Cloud & MLOps: AWS (basic), Docker, Model Deployment, Model Monitoring
- Tools: Git, GitHub, VS Code, Postman, Jupyter, Google Colab

CERTIFICATIONS

- AWS Cloud Practitioner Essentials – AWS
- Google Analytics – Google
- Big Data Analytics – Great Learning
- R Programming for Beginners – Simplilearn
- Accessing Hadoop Data Using Hive – IBM

ADDITIONAL DETAILS

- Nationality: Indian
- Date of Birth: 18 June 2002
- Visa Status: Visiting Visa