# SALMAN FARIS T

**Malappuram, Kerala | +91 81388 28316 | farizsalmant@gmail.com | LinkedIn | GitHub**

## PROFESSIONAL SUMMARY

AI Engineer with hands-on experience developing machine learning models, AI-powered applications, workflow automation systems, and Generative AI solutions. Skilled in Python, SQL, Scikit-learn, TensorFlow, PyTorch, Hugging Face, and LLM fine-tuning techniques including LoRA and PEFT. Experienced in building end-to-end AI pipelines covering data preprocessing, feature engineering, model training, evaluation, deployment, and automation. Familiar with AI-powered applications using LLMs including GPT, Gemini, Claude, and open-source models. Familiar with vector databases, embeddings, FastAPI, retrieval-augmented generation (RAG), AI agent workflows, and scalable AI system deployment. Currently expanding expertise in MLOps, Docker, cloud deployment, model monitoring, and production AI infrastructure.

## PROFESSIONAL EXPERIENCE

**Data Science Intern | Techolas Technologies**

March 2025 – December 2025 | Calicut, Kerala

- Built data preprocessing and analysis pipelines for datasets containing over 5,000 student records using Python and SQL.
- Performed feature engineering, data transformation, and exploratory analysis to support machine learning model development.
- Generated actionable business insights through AI-driven analytics and workflow automation initiatives.
- Designed, trained, and evaluated machine learning models to identify student performance trends, applying model evaluation techniques and performance optimization.
- Collaborated with cross-functional teams to translate business requirements into AI-driven analytical solutions and automated reporting workflows.

**Open Source Contributor | Wecode Community** **Link | GitHub**

- Contributed to multiple open-source projects including BookMyVenue, FoodSnap AI, and Pixel Peep through feature development, bug fixes, testing, and code improvements.
- Collaborated using GitHub workflows including pull requests, issue tracking, and code reviews within a distributed development environment.

## SKILLS

**Programming Languages :** Python, R, SQL

**Machine Learning & AI :** Supervised Learning, Unsupervised Learning, Deep Learning, Feature Engineering, Model Evaluation

**Generative AI & LLMs :** GPT-4, Gemini, Claude, Ollama, Prompt Engineering, RAG, Embeddings, Semantic Search, Transformers, Hugging Face, LoRA, PEFT, AI Agents

**Vector Databases** : FAISS, ChromaDB, Pinecone (Learning), Vector Search, Similarity Search

**AI Infrastructure & MLOps (Learning):** Docker, MLflow, DVC, Experiment Tracking, Model Versioning, CI/CD Fundamentals

**Frameworks and Libraries :** Scikit-learn, Pytorch, TensorFlow, OpenCV, Keras, Numpy, Pandas

**NLP :** NLTK, spaCy, NER, Tokenization, Text Classification, TF-IDF

**Backend & Databases :** FastAPI, REST APIs, MySQL, Database Design, NoSQL Concepts, API Integration

**Workflow Automation :** n8n, Zapier, Python Automation

**Version Control :** Git, GitHub

**Visualization :** Tableau, Power BI, Matplotlib, Seaborn

## EDUCATION

**Bachelor of Engineering in Artificial Intelligence and Machine Learning**

Visvesvaraya Technological University

2021 - 2025 | Bengaluru, Karnataka

## PROJECTS

**Agent Orchestration Layer ("n8n for AI agents")** GitHub

*Technologies Used: Python, n8n, Generative AI, AI Agents, Prompt Engineering*

- Integrated LLM APIs for task execution and response generation.
- Designed prompt engineering workflows for multi-agent collaboration and automated task routing.
- Developed REST API endpoints for agent communication and workflow execution.
- Explored retrieval-augmented generation (RAG) pipelines using embeddings and vector search.

**FoodEye – Indian Food Detection Using YOLO** GitHub

*Technologies Used : Python, OpenCV, YOLO, Roboflow*

- Integrated model inference into a reusable prediction pipeline supporting real-time image classification workflows.
- Developed an AI-powered computer vision application using YOLO to detect and classify Indian food items in real time.
- Trained a custom model on annotated food image datasets and performed model evaluation and inference.
- Implemented an end-to-end AI workflow including dataset preparation, model training, evaluation, and deployment.

**Fish Freshness Detection Using CNN** Live | GitHub

*Technologies Used : Python, TensorFlow, Streamlit, HuggingFace, Scikit-learn*

- Developed a deep learning-based image classification application achieving 85% prediction accuracy for fish freshness detection.
- Designed and trained a custom Convolutional Neural Network (CNN) using a curated image dataset.
- Implemented real-time image prediction through camera and file upload functionality.
- Integrated Hugging Face model hosting and automated model retrieval for seamless deployment.
- Built an interactive Streamlit interface for user-friendly predictions and visual feedback.

## CERTIFICATIONS & ACHIEVEMENTS

**Hac'KP Hackathon 2025 Phase 2 participant,** *Kerala Police Cyberdome* 15/08/2025

- Worked under the AI team in Hac'KP Hackethon 2025 conducted by Kerala Police Cyberdome

**Best Paper Award at National Conference**, *IEEE Bangalore Section* *20/11/2024*

- Won the Best Research Paper award at Pravartana National Conference Under IEEE Bangalore section

## LANGUAGES

English, Malayalam, Hindi, Tamil (Speaking)