

# Danish A. G.

AI/ML Engineer | Semantic Systems | Multi-Agent AI | AI/DX

Open to relocate to Tokyo, Japan

+91-8903099026    agdanishr@gmail.com    xzashr.com    linkedin.com/in/xzashr    github.com/xzashr

## EDUCATION

### Anna University

2023 – Present

Bachelor of Engineering in Computer Science and Engineering | CGPA: 8.77/10.0 (till 4th semester)

## TECHNICAL SKILLS

<b>Programming:</b>	Python, SQL, C/C++ (Basics)
<b>Core CS:</b>	Data Structures and Algorithms, OOP, Operating Systems, DBMS, Computer Networks, API Design, System Design
<b>AI / ML:</b>	Machine Learning, Deep Learning, NLP, Computer Vision, Transformers, Transfer Learning, Feature Engineering, Model Evaluation, PyTorch
<b>Semantic / Agentic AI:</b>	LangChain, LlamaIndex, RAG, Vector Embeddings, Semantic Search, LangGraph, Multi-Agent Systems, Autonomous AI Agents, Tool-Use, Knowledge Representation
<b>AI / DX Systems:</b>	Internal Tools, Workflow Digitization, Structured Outputs, Analytics Copilots, API-Driven Applications, Production-Oriented ML Pipelines
<b>Cloud / Tools:</b>	AWS, FastAPI, REST APIs, Streamlit, Docker, SQLite, Git/GitHub, Linux, W&B, MLflow

## KEY PROJECTS

### Farming Advisory Orchestrator

2025

*Multi-Agent Orchestration, Autonomous Agents, Semantic Reasoning*

- Architected a 25+ agent intelligence system spanning soil, climate, water, budget, and market advisory workflows, emphasizing multi-agent orchestration, modular reasoning, and inter-agent coordination.
- Integrated Ollama with optional Hugging Face deployment and built a Streamlit plus SQLite memory layer to support persistent context, stateful interaction, and recommendation-driven agent workflows across sessions.

### NL-to-SQL Analytics Copilot

2025

*Semantic Parsing, LLM Systems, Retrieval-Ready Architecture*

- Engineered an end-to-end natural-language-to-SQL system for live databases with intent capture, schema-aware query generation, validation, and structured analytics output rendering.
- Designed retrieval-ready and knowledge-grounded components using semantic parsing, embeddings-oriented retrieval patterns, and safety checks to improve reliability of LLM-driven data access.

### SHAP Grounded Evidence Retrieval Stack

2025

*Explainable AI, Evidence Retrieval, Traceable Decision Support*

- Designed an explainability-driven retrieval stack that pairs model-level importance signals with supporting evidence retrieval to make AI outputs more traceable, auditable, and interpretable.

### Offline First MSME Intelligence Stack

2024

*AI Infrastructure, Edge-Aware Intelligence Systems, Deployment-Oriented Architecture*

- Conceptualized a patented AI/ML intelligence stack oriented toward deployable, offline-first decision-support workflows, strengthening the resume's systems-level narrative beyond model-centric projects.

## PROFESSIONAL EXPERIENCE

### Way.com

Sep 2025 | Nov 2025

*AI Engineer Intern*

Kerala, India

- Architected and deployed multiple AI-driven computer vision modules for vehicle analytics, including parts detection, position detection, distance tracking, and vehicle type classification.
- Designed training, evaluation, and production-oriented inference workflows with structured output generation, contributing to AI-enabled analytics systems and practical DX-oriented internal tooling.

### ISRO IPRC, COWAA Lab

Feb 2024 | Mar 2024

*Web Development Lab Intern*

Tamil Nadu, India

- Contributed to internal web applications and dashboards covering document workflows, employee modules, and monitoring systems, supporting workflow digitization and operational DX using HTML, CSS, JavaScript, PHP, SQL, and modern web technologies.

### ULOG3

Dec 2023 | May 2024

*Image Processing Intern*

Tamil Nadu, India

- Developed image processing and segmentation pipelines using aerial, drone, and related visual data for multi-class classification tasks, building practical depth in applied computer vision workflows.

## CERTIFICATIONS

**AWS Certified Generative AI Developer - Professional** (AWS)

Feb 2026 – Feb 2029

**AWS Certified Solutions Architect - Associate** (AWS)

Jan 2026 – Jan 2029

**Microsoft Certified: Fabric Data Engineer Associate (DP-700)** (Microsoft)

Jan 2026 – Jan 2027

**Oracle Cloud Infrastructure 2025 Generative AI Professional** (Oracle)

Oct 2025 – Oct 2027

**Oracle AI Vector Search Certified Professional** (Oracle)

Oct 2025 – Oct 2027

## ACHIEVEMENTS & RECOGNITION

**First Prize, K! Hacks 3.0 Hackathon**, Anna University

Jan 2026 | INR 1,50,000

**First Prize, Hackathon**, Indian Institute of Technology, Guwahati

Sep 2025 | INR 1,00,000

**Publication:** ICDSAAI 2026 Conference

**Indian Patent Publication**, App. No. 202541062081 A, Non-Invasive Alzheimer's Disease Assessment Using Retinal

Jul 2025

Fundus Imaging