

# Mohammad Faisal Gilkar

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## PROFILE SUMMARY

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- AI/ML Engineer with 1 year of hands-on experience in Python-based machine learning and deep learning projects, with growing exposure to Generative AI systems.
- Built and deployed RESTful backends using FastAPI, supporting ML/LLM-powered features and basic end-to-end AI workflows.
- Practical experience with Large Language Models (LLMs), including prompt engineering, simple RAG pipelines, and integrating APIs such as OpenAI or open-source models.
- Worked with data pipelines and storage using MongoDB and SQL/NoSQL databases to support model training and inference.
- Familiar with core ML/DL concepts (supervised learning, neural networks, model evaluation) and applied them to real-world use cases.
- Basic understanding of Generative AI concepts, including embeddings, vector databases, and early exposure to Agentic AI patterns (tool calling, multi-step reasoning).
- Strong learner and collaborative team member, focused on translating business requirements into practical AI-driven solutions.

## EXPERIENCE

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### AI/ML Engineer - AIIOT GEEKS WORLD PVT LTD

01/2025 - Present

- AI/ML Engineer with ~1 year of experience in Python-based machine learning and deep learning, with growing exposure to Generative AI and LLM-based systems.
- Built and deployed RESTful backends using FastAPI, supporting end-to-end ML and LLM-powered workflows.
- Hands-on experience with LLMs including prompt engineering, basic RAG pipelines, and API integrations using OpenAI and open-source models.
- Applied core ML/DL techniques such as data preprocessing, feature engineering, and model evaluation; familiar with embeddings, vector databases, MongoDB, SQL/NoSQL, and early Agentic AI concepts.

### AI/ML Intern - AIIOT GEEKS WORLD PVT LTD

10/2024 - 12/2024

- Assisted in building and deploying NLP and machine learning models using Python and FastAPI for production-ready and experimental applications.
- Supported end-to-end AI workflows by integrating backend services with cloud platforms and handling data using MongoDB.
- Participated in model experimentation, basic hyperparameter tuning, and evaluation to improve model performance.
- Collaborated with senior engineers by providing backend and data pipeline support across multiple AI/ML projects.

## PROJECTS

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### Datalect AI – Benchmarking & Intelligent Report Generator

- Built an AI-driven platform for multi-framework sustainability and financial reporting, enabling PDF ingestion, benchmarking, and automated report generation using FastAPI, LangChain, Groq LLMs, and vector search.
- Designed and implemented “Magic Report” and RAG workflows to parse large PDFs, extract relevant sections, and map content across GRI, ESRS, ISO, and financial reporting standards.
- Optimized document retrieval and data structuring pipelines to improve accuracy, scalability, and consistency in multi-standard compliance reporting.

### Website RAG Backend – FastAPI-Based Retrieval-Augmented Generation System

- End-to-End Web RAG Pipeline: Scrapes and cleans web content using Playwright with trafilatura fallback, chunks text via LangChain, and stores embeddings in FAISS with rich metadata.
- Flexible Embedding & LLM Support: Supports OpenAI embeddings with a sentence-transformers fallback, enabling local or cloud-based deployment.
- Production-Ready API: FastAPI endpoints for indexing and querying websites, returning LLM-generated answers with source citations; includes Docker support for easy deployment.

### **SambaNova Medical Image Diagnosis Assistant**

- Developed a multimodal medical assistant leveraging SambaNova large multimodal models (LMMs) to analyze uploaded medical images and respond to natural-language clinical queries.
- Engineered safe and controlled prompt workflows with a FastAPI backend to ensure context-aware, reliable, and responsible AI responses.
- Built an interactive Streamlit-based UI enabling real-time image upload, inference, and conversational medical insights for end users.

### **Intelligent PDF Data Extraction & Query System**

- Built an end-to-end system to extract structured and semi-structured data from PDFs using OCR pipelines with Tesseract, pdfplumber, and custom preprocessing logic.
- Transformed extracted data into queryable SQLite databases, enabling efficient storage, indexing, and retrieval of document-level information.
- Integrated Groq LLMs to generate SQL queries from natural language prompts, allowing real-time data exploration through a Streamlit interface.

## **SKILLS**

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### **AI & Generative Intelligence**

Python, Machine Learning, Deep Learning, LLMs, Generative AI, NLP, RAG Pipelines, Vector Databases, Prompt Engineering.

### **Backend Engineering & System Development**

FastAPI, API Design, Streamlit, System Architecture, Git/GitHub.

### **Data Engineering & Databases**

MongoDB, SQL, Data Analytics, PDF Processing, OCR (Tesseract), pdfplumber, tabula-py.

## **EDUCATION**

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### **Bachelors In Computer Science Engineering**

*Cluster University*