

DEEPANKAR PAWAR

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PROFESSIONAL SUMMARY

AI/ML Engineer with 2.5+ years of experience building and deploying RAG models and intelligent systems, context engineering. Skilled in Python and Azure, data reconciliation with hands-on expertise in computer vision, RAG systems, and multi-agent architectures.

Focused on delivering practical, business-relevant AI solutions with scalable data pipelines and MLOps practices.

PROFESSIONAL EXPERIENCE

Praval Infotech *AI/ML Engineer*

Aug 2024 - Present

Led AI engineering initiatives in multi-agent systems, computer vision and intelligent automation for enterprise real estate and manufacturing clients.

- Built a mineral detection system with OpenCV + Azure, improving probability of mineral detection by 30%.
- Built automated invoice extraction processes using n8n, python, prompt engineering methods reducing manual reconciliation by 80%
- Delivered a multi-agent AI system for leading Real Estate Client (US) to monitor 5000+ documents in real time, cutting manual monitoring costs by 50%.
- Created a multimodal RAG solution to match manufacturing workers with location-based jobs using AstraDB, LangChain, Chainlit, and SQL.
- Designed an end-to-end ML workflow using XGBoost for predicting pipeline completion times (81% accuracy), covering data preprocessing, model experimentation, and performance optimization.

Praval Infotech *Associate software Engineer*

Jan 2024 – Aug 2024

Executed data migration processes within Azure Synapse Analytics, ensuring efficient and accurate data transfer across environments.

- Performed SQL query optimization to enhance data retrieval performance and reduce query execution time.
- Conducted data validation and unit testing to ensure accuracy, consistency, and quality of migrated data.
- Implemented tables in Lake Databases, enabling structured access to data stored in Azure Data Lake Storage Gen2.
- Developed and maintained Synapse Notebooks, incorporating fuzzy logic techniques for intelligent data processing and matching.

PsyCliq (*SQL Developer Intern*)

Nov 2023 – Jan 2024

Extracted detailed prospect information from platforms including LinkedIn, Apollo.io, ZoomInfo, and Manta, focusing on identifying key decision-makers such as C-level executives, Heads, Directors, and Managers.

Ensured data integrity initiatives within SQL databases containing 25,000+ contact records, ensuring data consistency and reliability for sales and marketing campaigns, improving campaign effectiveness.

TECHNICAL SKILLS

Programming: Python, MCP, System Design, HLD, LLD

AI/ML/DL & Gen AI: RAG systems, context and prompt engineering, AI agents, Machine Learning, Deep Learning, scikit-learn, NumPy, pandas, OpenCV, AI tools.

Cloud: n8n, Azure (Azure ML, Synapse, Cognitive Services, Azure AI services), Docker, Git, CI/CD.

Databases & Data Engineering: SQL, NoSQL, DBMS, Spark, Power BI.

EDUCATION

PG Diploma Big Data Analytics (c-dac hyd)

Sep 2022 – Jun 2023

Bachelor's Degree in Mechanical Engineering (sppu pune)

Jun 2016 – Jun 2020

PROFESSIONAL CERTIFICATIONS

Azure AI Engineer Associate Microsoft

Oct 2025

Numerical Analysis using Statistics Skill Lync

Aug 2021

Communication skills TCS ION

July 2020

Excel from Beginner to Advanced Udemy

Aug 2020

PROJECTS

PCB Fault Detection: Developed an AI-powered defect detection system using YOLOv8, trained on 2,000 labeled PCB images with GPU acceleration to identify faults such as missing holes, open circuits, and soldering defects. Implemented using Python and OpenCV, enabling automated, real-time inspection with high accuracy and reduced manual error in PCB quality control.