

ARPIT SINGH

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DSA Experience

Work Experience

AI Engineer | Proplens AI | Internship

2024(May) - 2025(Apr)

- Worked in a fast-paced startup environment to develop innovative prop-tech solutions addressing real-world challenges.
- Designed and implemented the primary routing layer to efficiently handle user queries of categories like csv, vision etc. with accuracy above **80%**.
- Experimented and integrated vector search for Retrieval-Augmented Generation (RAG) having an average accuracy of **98%**.
- Built **end-to-end ETL pipeline** for **Knowledge Graphs**, pdfs and csv data to store and retrieve data in more efficient manner.
- Engineered **recommendation engine** based on users profile, used Naive Bayes algorithm to achieve accuracy over **90%**.
- Developed an **AI agent** capable of generating SQL queries, fetching the records for Postgres and then produce answer for the user input query.
- Worked with technologies such as Python, FastAPI, SQL, PostgreSQL, Deep Learning, Machine Learning, Generative AI, Large Language Models (LLMs), Prompt engineering etc.

Machine Learning Engineer | YBI Foundation | Internship

2023(jun) - 2023(aug)

- Worked with technologies and methods like preprocessing, data visualization, etc. **Machine Learning, Pandas, Matplotlib, PostgreSQL, Scikit-learn.**
- Engineered a predictive churning model for bank, leveraging Support Vector Machines.
- Utilized the gained knowledge and developed a Spam classifier model with simple UI by using Streamlit.

Skills

Fundamentals	- Data Structures and Algorithms, Object Oriented Programming, Machine Learning, Deep Learning, Database Management System, Natural Language Processing.
Programming languages	- Python, JavaScript
Other languages	- SQL
Frameworks	- Django, FastAPI, MCP Servers, n8n, PyTorch, LangChain, LangGraph, Hugging Face
Libraries	- Scikit-learn, Pandas, Numpy, Matplotlib
Databases	- PostgreSQL, MongoDB, neo4j, Vector Database
Additional	- Version controlling (Git), Docker, RESTful API etc.
Soft Skills	- Problem Solving, Teamwork, Time management, Critical, Analytical and Creative thinking etc.

Personal Projects | [Link]

Event Scheduler AI Agent | [Link]

2025(june) - 2025(june)

- Developed an intelligent AI agent to autonomously schedule Google Meet events via Google Calendar APIs.
- Integrated Gemini for **prompt reasoning**, gTTS for **voice feedback**, and built agentic logic from the ground up.
- Engineered advanced **context-awareness** and smart natural language **time parsing** for user-friendly scheduling.
- Implemented **robust conflict resolution** mechanisms to handle overlapping events and time constraints.
- Demonstrated practical agent-based automation using real-time calendar data and multimodal interfaces.

Clinic-Support-AI-Agent | [Link]

2025(oct) - 2025(nov)

- Built a multi-agent medical AI system using Python, **FastAPI**, **LangGraph**, and Streamlit.
- Implemented a full **ETL pipeline for PDF upload**, extraction, embedding, and **FAISS storage**.
- Enabled accurate RAG responses through FAISS vector search and LangGraph-based agent coordination.
- Developed APIs for medical query handling and document ingestion with real-time interaction.
- Integrated **web-search capability** for hybrid retrieval combining vector knowledge and online information.

License and Certifications

- Web Developer Bootcamp 2023 | [Udemy]
- Knowledge Graphs Course | [Neo4j]
- LangChain Chat with Your Data | [DeepLearning.AI]
- Prompt Engineering for Developers | [DeepLearning.AI]
- Foundation: Introduction to LangGraph | [DeepLearning.AI]

Education

Bachelor of Technology, Computer Science and Engineering

2021(nov) - 2025(June)

Rajkiya Engineering College Mainpuri