

ARYAN RAJ

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Professional Summary

A dynamic Computer Science student with a strong foundation in Artificial Intelligence and Machine Learning and a commitment to continuous professional development. Proven leadership and communication skills with ability to collaborate effectively across technical and business teams. Seeking diverse opportunities in technology and business-focused positions where innovation meets strategic thinking.

Education

Bachelor of Technology in Computer Science & Engineering

VIT Bhopal University | AI & ML Specialization

CGPA: 8.93/10

Aug 2022 - May 2026

Higher Secondary Education (Science)

St. Clare's Convent School, Lucknow

92.8%

Technical Expertise

Programming: Python, C++, SQL, JavaScript(basic) | **AI/ML:** PyTorch, TensorFlow, Scikit-learn, Keras, NLTK, spaCy | **LLM & Generative AI:** Ollama, RAG Systems, Vector Databases, Agentic AI, Prompt Engineering | **Web Development:** Flask, FastAPI, RESTful APIs, React | **Data & Analytics:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Power BI, Statistical Analysis | **Cloud & DevOps:** AWS, Docker, Git, Postman | **Databases:** MySQL, PostgreSQL, MongoDB, Qdrant (Vector DB)

Professional Projects

SmartHireX: Multi-Agent AI Recruitment Platform

Python, Flask, Ollama LLM, PostgreSQL

- Architected intelligent multi-agent recruitment system using Ollama LLM for automated candidate screening and ranking
- Implemented automated email workflows and RESTful APIs, significantly reducing recruitment cycle time
- Deployed production-ready Flask application with high availability serving multiple concurrent users

HR Analytics Dashboard: Employee Attendance Management

Power BI, SQL, Python, Data Visualization

- Built comprehensive dashboard tracking employee attendance patterns, absence trends, and leave utilization across departments
- Developed automated SQL queries for real-time data extraction from HR databases with interactive reporting features
- Created executive insights on workforce presence, sick leave patterns, and departmental attendance analytics

Intelligent Document Query System with RAG

FastAPI, Qdrant, Vector Embeddings, LLM

- Engineered advanced document retrieval system using RAG architecture with semantic search capabilities
- Implemented vector database integration delivering highly relevant contextual question answering
- Built scalable FastAPI backend with OAuth authentication handling high-volume daily queries efficiently

Kisan Sathi: AI Agricultural Advisory Platform

Python, ML Models, Weather APIs, React

- Created intelligent crop optimization engine using soil analysis and climate modeling for accurate predictions
- Integrated multiple real-time APIs for weather, market prices, and agricultural data with responsive dashboard
- Delivered actionable farming insights to farmers, improving crop yields and agricultural decision-making

Conversational AI Interview System

Python, NLP, Flask, API

- Developed intelligent interview chatbot with dynamic question generation and real-time candidate assessment
- Implemented advanced sentiment analysis and response evaluation for comprehensive candidate scoring

Co-Curricular Activities

Open Source Contributor - GirlScript Summer of Code 2024

June 2024 - Aug 2024

Contributed to 10+ AI/ML projects: ML model fine-tuning, neural network optimization

Zonal Poster Competition Winner

1st Position in Zonal Level Poster Competition with Chief Minister felicitation

Certifications

- IBM Generative AI Professional Certificate** - Advanced AI model development using IBM Watsonx
- MongoDB Node.js Developer Certification** - Database design and optimization techniques
- Postman API Fundamentals Expert** - Advanced API development and testing methodologies

Additional Information

Languages: English (Fluent), Hindi (Native) | **Key Strengths:** Problem Solving, Team Leadership, Analytical Thinking, Innovation | **Interests:** Generative AI, Agentic AI, Deep Learning, Data Science, Creative Design | **Hobbies:** Sketching, Sports