

# RISHIK KUMAR

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## Experience

### Deloitte USI Consulting | Data Scientist (Sep 2024 - Present)

- Developed 4 AI Agents to retrieve data for pharmaceutical usecase, aiding in cancer drug research.
- Led the integration of manager agent with other LLM agents, delivering an estimated \$15 million in cost savings.
- Acted as POC for client communications, accelerating multi-agent system designing process by 25%.
- Enhanced AI agent tool by adding 2 new capabilities enabling subplots and overlapping graphs creation.
- Designed unit tests for agent functions, achieving 90% code coverage and ensuring reliable performance.
- Developed AI driven automation for internal ticket system, reducing human intervention by 60%.
- Trained open source LLM model on AWS and implemented retrain function for regular training.
- Developed LLM based solution to extract and compare PDF tables, reducing operational time for cancer drug research by 40%.

### AIQoD | Software Developer Intern (Dec 2023 - Feb 2024)

- Leveraged open source image generation model for object detection, eliminating data labelling effort and reducing model training cost by 75%.
- Engineered cross-platform web application using React and Node.
- Integrated the application with the model for object detection, and performed end to end testing.

### Centre for Cyber Physical System Research, VIT | Summer Research Intern (May 2023 - Jul 2023)

- Improved upon existing Alzheimer's Disease Detection System and achieved 98% accuracy.
- Performed 3 image transformation techniques to enhance system performance by 4%.

## Projects

### Depression Detection via Text Sentiment

- Computes depression tendencies from person's speech patterns and classifies patients with 96% accuracy.
- Operates using Transformer architecture with 4 head attention mechanism.

## Skills

Programming Languages:	Python, TypeScript, Go, C++, SQL
Frameworks & Development:	LangChain, LangGraph, FastAPI, Django, React, Node
Databases:	MySQL, PostgreSQL, Neo4j (Graph DB), MongoDB, VectorDB, OpenSearch
Data Science & ML:	PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, SciPy
Data Engineering:	PySpark, Hadoop
Cloud Platforms:	Google Cloud Platform (GCP), Amazon Web Services (AWS)
MLOps & DevOps:	Docker, GitHub Actions
Analytics & BI Tools:	Power BI

## Education

### Vellore Institute of Technology (2020 - 2024)

B. Tech. Computer Science with specialization in Artificial Intelligence - 8.61

### Senior Secondary (ISC) (2018 - 2020)

Lucknow Public College - 92.5%

### Secondary Education (ICSE) (2017 - 2018)

St. Mary's Convent Inter College - 95.2%

## Certifications

- [Google - Associate Cloud Engineer](#)
- [Google - Professional Machine Learning Engineer](#)
- [Google - Introduction to Generative AI](#)
- [Google - Introduction to Large Language Models](#)
- [Deloitte - AI Certified Professional](#)
- [Microsoft - Azure Security, Compliance, and Identity Fundamentals](#)
- [Oracle - Oracle Academy](#)

## Publications

### Robust and Secure Evidence Management in Digital Forensics Investigations Using Blockchain Technology

IGI Global Publications (Oct 2023) ([View](#))

- Proposed a framework for evidence management in digital forensic investigations.
- Leveraged blockchain technology to ensure integrity and authenticity of the chain of custody process.