

# ARYA VEER KRISHNA

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## WORK EXPERIENCE

Data Scientist JIO Platforms Limited — Mumbai

Dec 2023 - Present

- Working as part of the Jio Analytics COE team, focusing on delivering enterprise-level Advanced RAG chatbots with semantic caching, reducing LLM calls by 25% while ensuring consistent responses, prompt routing for unnecessary queries, using on-prem LLMs like llama 3.1 to evaluate the pipeline and rephrase user queries.
- Developed a RAG chatbot that reduced response time for chatbot queries by 40 seconds, leading to improved Business satisfaction and enhanced engagement with the Jio Analytics COE team's services.
- Developing scalable data ingestion pipelines using Ray (2.37.0) to manage proprietary data in vector databases.
- Built a pipeline for extracting graphs from PDFs and generating CSV files using LLMs with 92% accuracy on bar/line graph .
- Built summary indexing pipelines for unstructured data and store them in Milvus thus increasing the accuracy of retrieval process by 23% .
- Building CDC pipelines to track changes in Git and wiki data and ingest them into vector databases.
- Building DevOps/AIOps agents using LLMs to find root cause analysis (RCA).

## PROJECT

- **Adaptive RAG:** The adaptive RAG framework enhances response accuracy by 33% by selecting the appropriate strategy for handling queries, ensuring efficient processing for both simple and complex requests.
- **Charts2csv:** This project extracts images from PDF files and runs inference using the DePlot model to generate data tables from graph images with 92% accuracy on Simple Bar/line charts. The setup uses Docker and Docker Compose to simplify deployment and make it easy to start.

## EDUCATION

Bachelors of Technology in Electronics and Telecommunications Engineering

Aug 2019 - June 2023

K. J. Somaiya Institute of Technology, Mumbai

- GPA: 9.32/10

## ADDITIONAL INFORMATION

**Technical Skills:** Python, Pyspark , pandas, statistics , Langchain, Milvus, Ray framework, Computer Vision, Kubernetes, Scalable solutions, DSPy, Prompt Engineering, LLMs, RAG, Up-train, Docker, PostgreSQL, FastAPI, SQL, Javascript, Redis, Git, Airbyte, Airflow, Bash, kafka

### Certifications:

- Google Python Programming Course: Coursera
- Google Cloud: Machine Learning Operations (MLOps): Coursera

**Accomplishments:** Published my own IEEE paper in 2022 5th International Conference on Advances in Science and Technology (ICAST) "A Modern Approach To Conventional Silk Farming" DOI: 10.1109/ICAST.2022.100395