

# Aarish Alam

arishalam121@gmail.com

Metallurgical Engineering and Materials Science

Mobile No. 7223015989

Portfolio Website



## Education





### National Institute of Technology Raipur

| Degree | Year | CPI  |
|--------|------|------|
| B.Tech | 2023 | 8.59 |

## Work Experience

- AI Engineer,**FutureOps** March 2023 - Present
- Built semantic chat and voice systems using agentic workflows, Hybrid RAG, and **R<sub>2</sub>RF**, achieving over **97%** precision and context recall.
  - Developed LLM observability pipeline with **phoenix** and evaluation suite using **RAGAS**.
  - Built an agentic system for querying Kubernetes pods and databases using **Langgraph** and **MCP**.
- AI Engineer,**Fold Money** July 2022 - March 2023
- Developed a natural language search system achieving **ndcg score of 98%** on large-scale transactional data.
  - Built a **hybrid tagging system** adapting to user behavior (Featured Here).
- Automation Engineer,**Phonepe** Jan 2023 - Jun 2023
- Analyzed merchant support data for optimizing agent responsibilities and support workflows.
- Data Scientist,**Shopagain** Dec 2021 - Dec 2022
- Built Customer Lifetime Value and real-time intent prediction modules deployed with monitoring.

## Projects

- LLM-Gym** : Built a semantic search and chat tool with **Qdrant** and **Meilisearch** to enhance retrieval of bookmarked articles.  
- Browser-side Inferencing** : Web-based inference using **ONNX Runtime** + WebAssembly for sentiment analysis. 
- Personalized Chat Bot** : WhatsApp-based chatbot using **Pinecone**, **Langchain**, and GPT for user-specific responses. 

## Talks

- Speaker at PyData Bangalore on Scalable Hybrid RAG



## Skills

- Languages*: C++, Python
- Libraries*: Numpy, Pandas, Scikit, Tensorflow, Keras
- Frameworks*: Flask, Streamlit, FastAPI
- Databases*: MySQL, MongoDB, Postgres, Qdrant
- Cloud*: AWS, GCP, Azure, Terraform