

# Mini Agarwal

+91 7001037225 | [miniagarwal2002@gmail.com](mailto:miniagarwal2002@gmail.com) | [linkedin/Mini](https://www.linkedin.com/in/Mini) | [github/Mini](https://github.com/Mini) | [leetcode/Mini](https://leetcode.com/Mini)

## EDUCATION

### Techno Main Salt Lake

B.Tech in Computer Science and Engineering — CGPA: 9.22 / 10

Kolkata, India

Aug 2019 – Aug 2023

## EXPERIENCE

### Tech Mahindra Ltd

Associate Software Engineer

Mar 2024 – Present

Kolkata, India

- Optimized Vue.js frontend modules and automated CI/CD pipelines, reducing system response time by 40% and deployment errors by 25%.
- Engineered an internal RAG application using Mistral 7B to automate policy queries, reducing manual lookup time by 75% and eliminating handbook searches.
- Mitigated LLM hallucinations by refining retrieval parameters and prompt constraints, significantly improving response accuracy in a resource-constrained environment.
- Architected a secure on-premise deployment via SSH tunneling on client VM, ensuring strict adherence to enterprise data privacy standards.

### Humming Bird Web Solutions Pvt Ltd

Software Developer Trainee

Sept 2023 – Dec 2023

Pune, India

- Focused on UI optimization and mobile responsiveness for better user experience. Collaborated with cross-functional teams in Agile sprints using Jira and GitHub.

## PROJECTS

### Document RAG Assistant | Python, LangChain, Hugging Face, Streamlit, Groq, FAISS

Aug 2025

- Built end-to-end RAG chatbot enabling question-answering from uploaded PDFs using LangChain, FAISS vector search, and Groq LLM with SentenceTransformer embeddings
- Implemented dynamic chunking strategies to optimize the trade-off between retrieval accuracy and inference speed and deployed on Streamlit Cloud.

### Customer Churn Predictor | Python, Pandas, Scikit-learn, Matplotlib, Streamlit

June 2025 – July 2025

- Built a churn prediction model using Logistic Regression and random forest (Best AUC: 0.80)
- Handled class imbalance using class weights, improving recall from 52% to 77%
- Performed full EDA, feature engineering, and one-hot encoding.
- Developed and deployed a Streamlit web app for real-time churn predictions

### News Scraper | [GitHub Repo](#) | Python, BeautifulSoup, Pandas, MySQL, schedule, Docker

April 2025 – May 2025

- Developed automated ETL pipeline that extracts 100+ live BBC headlines, transforms unstructured text data, and loads processed results into MySQL database with scheduled execution every 12 hours.
- Data transformation using Pandas for text cleaning, deduplication, feature extraction (word count, length metrics), and data validation ensuring high data quality.
- Containerized entire pipeline using Docker with docker-compose configuration, enabling consistent deployment across environments and simplified dependency management.

## TECHNICAL SKILLS

**Languages:** Python, SQL, JavaScript, Java

**Libraries and Frameworks:** Pandas, Numpy, BeautifulSoup, Matplotlib, scikit-learn, Hugging Face, LangChain, Keras, TensorFlow, FAISS

**Tools:** GitHub, Docker, Jira, Tableau

**CS Concepts:** Data Structures and Algorithms, OOPS, DBMS, OS, Linux

**Cloud and database:** AWS, Docker, MySQL

## CERTIFICATION

### AWS Certified Cloud Practitioner

Valid: Feb 2025 – Feb 2028