

# RAKESH HALIJOL

Bengaluru, Karnataka

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## Experience

### SAPLABS India Pvt Ltd.

Data Science scholar

Aug 2022 – Present

Bengaluru, India

- Building and optimizing Machine Learning, Deep Learning, and GenAI solutions for intelligent automation and insights.

## Projects

### Smart Suggester / Jul 2023 - Sept 2024 / [Clickable Link](#)

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- Built an AI-driven **Jira issue resolution system** using **RAG**, **vector similarity search** & **FineTuning(QLORA)**.
- Developed a pipeline to collect, embed (**text-embedding-ada-002**), and store Jira issues in **ChromaDB**.
- Integrated **GPT-4** to generate solutions for new issues based on similar past cases.
- Automated data collection and tracking via **Jenkins jobs** and **cron jobs**.
- Monitored **token usage & costs**, providing insights for SAP leadership.
- Designed a **scalable architecture** for deployment on **GCP team environments**.

### Sentiment Analysis on SAP Internal Product Comments Clone / Sept 2022 / [Clickable Link](#)

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- Conducted **sentiment analysis** on SAP product comments using **BERT** and other embedding models.
- Tracked all model experiments using **MLflow** for versioning and performance evaluation.
- Applied **PCA** on embeddings to analyze feature importance and reduce dimensionality.
- Performed **NLP preprocessing**, **EDA**, and feature engineering for optimal model performance.
- Deployed the model on **GCP Machine** and implemented **real-time monitoring** for insights.

### Smart Procurement Clustering – AI-Driven Vendor Segmentation | June 2023 | [Clickable Link](#)

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- POC deployed on GCP VM for AI-based procurement insights.
- Used all-MiniLM-L6-v2 for embeddings; applied KMeans & DBSCAN for clustering.
- Evaluated with Silhouette Score to identify vendor patterns and anomalies.

## Education

### Birla Institute of Technology and Science, Pilani (BITS Pilani)

Masters in Data Science (CGPA of 7.44)

Dec'2022 - Jun'2025

Bengaluru, Karnataka

### Mangalore Institute of Technology & Engineering

Bachelor of Engineering in Computer Science & Engineering(CGPA of 8.0)

Dec'2018 - Jun'2022

Mangalore, Karnataka

## Technical Skills

**Languages:** Python, JavaScript, Java

**Technologies/Frameworks/Libraries:** Machine Learning, Deep Learning, NLP, Generative AI, Agentic AI, LLM Fine-tuning using LORA and QLORA, MLOPS, Data Analysis, Data Visualization, statistics, HuggingFace, FastAPI, NextJS, Android Studio