

Ritesh Bhandari

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EDUCATION

University of Petroleum and Energy Studies, Dehradun **2021 - Present**
B.Tech Computer Science Engineering major Big Data and minor Machine Learning
CGPA 8.0

TECHNICAL SKILLS

Python, Linux, Java, Microsoft Azure Cloud, Apache Spark, Langchain, FAISS, SQL, Power BI, streamlit, Natural Language processing, web Technologies, REST API

PROFESSIONAL EXPERIENCE

Xebia Analyst Summer Internship

Natural Language Processing - [Github Link](#) **June 2024 - July 2024**

- Led comprehensive project on Sentiment Analysis using social media (YouTube) data, encompassing data collection via Google Cloud APIs and web scraping, processing with Hadoop and PySpark, and achieving 90% accuracy in predictive modelling.
- Orchestrated end-to-end frontend, backend website for deployment of machine learning model, utilising servlet, seaborn, and Python libraries, resulting in 30% increase in decision-making efficiency.

PROJECTS

ScholarWiz.ai Generative AI

July 2024

Generative AI Application for Research Papers - [Github Link](#)

- Built an Generative AI application with Python, Gemini-flash, FAISS, LangChain, Streamlit, Vector Embeddings and integrated various powerful LLM libraries which helps you chat with research papers and extract information you need.
- Implemented RAG on Google gemini LLM model. Added feature for uploading 1+ pdf files to analyse. Deployed and UI developed on streamlit.

Microsoft Power BI Sales Insight Project

May 2024

Data Visualisation Project Link - [Power BI project](#)

- Created Microsoft Power BI project aimed at analysing sales data for a multi-location company operating nationwide, resulting in 30% more informed decisions.
- Developed interactive dashboards to provide actionable insights into sales performance, trends, and key metrics across 30+ regions. Implemented advanced data statistic techniques to facilitate decision-making processes and optimise sales strategies.

Cultural Connect Event Website

October 2023 - December 2023

Full Stack Development using JavaScript, PHP, HTML - [Github Link](#)

- Led a team of three in Backend Development, UX research and database implementation, enhancing user engagement by 50% through intuitive and visually appealing interfaces.
- Used SQL for database Management, PHP for backend architecture, contributing to 20% reduction in page loading times. and HTML, CSS, JavaScript for frontend resulting in 25% improvement in overall user satisfaction.

Earthquake Prediction & Visualisation

March 2024

Machine Learning Project Link- [Earthquake Analysis](#)

- Using Python, Seaborn, Python, Matplotlib, NumPy and Pandas for data cleaning and implementing machine learning models: SVM, Gradient Boosting, Random forest, that achieved

80% accuracy in seismic activity forecasts. Created visualisations to highlight trends in seismic activities

Problem Statement for Spark Streaming and Apache Kafka Integration

Data Streaming Project

January 2024

- Implemented new low-latency pipeline to meet requirement for improved real-time data processing; this resulted in a 50% reduction in data processing latency, and 99.9% fault tolerance for advanced real-time analytics.

ACCOMPLISHMENT AND RECOGNITION

- Certified Microsoft Azure AI-102, designing and implementing AI solutions using Azure.
- Attended Workshop on Generative AI by [Instabase](#)
- Participated in IIT Samarthya socio-tech workshop; gained insights into technology integration, learnt about 20+ approaches. [Certificate](#)
- Core Committee team of ACM; taught 100+ students on coding & tech at local schools, organised various fest- amongst which [Prodigy 22](#), worked as a PR Representative.