

Ritav Jash

Hardworking undergraduate with interest in cloud technologies, machine learning, deep learning, and GenAI. Experienced in analyzing, designing, testing, and integrating components to meet business and program requirements.

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🔗 [GitHub Profile](#)

🌐 [LinkedIn Profile](#)

EDUCATION

•Bachelor of Technology in Computer Science and Engineering

Kalinga Institute of Industrial Technology

2021-25

CGPA: 8.22

PERSONAL PROJECTS

•Transformer Based Language Model

Developed a Transformer model with PyTorch for story completion, leveraging Multihead Attention Mechanism.

- Implemented decoding strategies such as top k sampling and temperature scaling for text generation.
- Trained model on a subset of the TinyStoriesV2 dataset, utilizing learning rate warmup and cosine annealing for improved training.
- Deployed the model using a Streamlit frontend, enabling users to modify generation settings.

•Airfare Prediction

Conducted in-depth exploratory data analysis of Indian flight data and developed a machine learning model for airfare prediction.

- Developed and compared multiple machine learning models, selecting the best-performing model with 85% prediction accuracy.
- Saved and deployed the model using Streamlit, with a frontend for users to input details and receive accurate predictions.

•Youtube Comments RAG

Designed and developed a RAG workflow utilizing Langchain for YouTube comments.

- Preprocessed YouTube comments dataset from LDJSON to JSON data for model training.
- Used FAISS for vector storage and retrieval and used an embedding model for generating embedding vectors.
- Compared the result between with and without context.

•Business Contract Validator(Team Project)

Streamlined contract analysis process using Natural Language Processing and Named Entity Recognition

- Extracted key entities from PDFs using NLP, compared extracted data against a predefined template, and generated a summary highlighting key points and issues.
- Collaborated with team to build a feature pipeline and containerized the application

STUDENT EXPERIENCE

•Cognizant Virtual Data Science Intern

Dec. 2023 – Jan. 2024

Forage

Online

- Completed a job simulation focused on AI for Cognizant's Data Science team, conducting exploratory data analysis using Python and Google Colab for Gala Groceries.
- Developed and implemented a Python module for training a Random Forest Regressor model, including data loading, preprocessing, training, evaluation, and feature importance visualization. Communicated findings using presentation slides.

•BCG GenAI Job Simulation

Aug. 2024

Forage

Online

- Completed a job simulation involving AI-powered financial chatbot development for BCG's GenAI Consulting team
- Developed AI-powered financial chatbot using Python and pandas, integrating complex financial data from 10-K and 10-Q reports with rule-based logic.

TECHNICAL SKILLS AND INTERESTS

Areas of Interest: Generative AI, Machine Learning, Deep Learning, NLP, Data Science, Cloud Computing

Languages: Python, C, C++, SQL

Tools/Frameworks: Amazon Web Services (AWS), Streamlit, Scikit-Learn, PyTorch, Pandas, Transformers, Docker, Flask (for API development)

Data: Neural Networks, Predictive Modeling, Data Cleaning, Data Visualization, Exploratory Data Analysis

Soft Skills: Problem Solving, Adaptability, Computational Thinking

Relevant Coursework: NLP, Machine Learning, Soft Computing, Data Structures, Probability & Statistics

Certification:

- * Exploratory Data Analysis for Machine Learning - IBM
- * AWS Academy Cloud Foundations - Amazon Web Services

ACHIEVEMENTS

*Odisha Semiconductor Design Challenge (STPI), Shortlisted for presentation among Top 14

*Achieved Rank 32 on KaggleX Skill Assessment Challenge 2024

March 2024

June 2024