

SATYA SAURABH MISHRA

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Education

PDPM, IIIT Jabalpur

M.Tech - Computer Science and Engineering—Current CGPA: 8.8

Jabalpur, MP

Aug. 2022 - Present

UNSIET, VBSU Jaunpur

B.Tech - Computer Science and Engineering—CGPA: 8.2

Jaunpur, UP

July 2018 - June 2022

Experience

Data Science Intern

July 2023 - Present

Dell Technologies

Onsite

- Enhanced **LLM model's** query response using **RAG methodology** with Dell data.
- Conducted end-to-end experiments on **llama-index** and **langchain**, integrating **OpenAI** and **custom LLM models**.
- Led efforts to **fine-tune embedding models**, improving their ability for enhanced dell data representation.
- Explored **Vector Database** like **Chroma DB** and **Faiss** for efficient storage and retrieval of vector representations.
- Implemented prompt techniques like **Cot(Chain of Thought)** for optimizing and getting better results from LLM.
- optimized model performance** through different **evaluations strategy** and comparisons with other llm models.
- Utilized **MLflow** for experiments tracking and Model registry.

Teaching Assistant

July 2022 - Sept. 2022

Coding Ninja

Remote

- Assisted **50+** students in learning **C++** and **Data Structures**.
- Took doubt sessions and resolved more than **90+** doubt with average rating of **4.58/5**.
- Debugged codes** and helped students with their assignments and problems.

Projects

E2E NLP Text Summarization With Deployment | LLM,NLP,Docker,EC2,CI/CD

Sep. 2023 - Oct. 2023

- Architected and deployed an **E2E Text Summarization** ML app with google pegasus model on **AWS EC2**, **orchestrated CI/CD using github actions**, and containerized with **Docker** for scalable deployment.

E2E ML Wine Quality Prediction With Deployment | ML,Docker,EC2,CI/CD

July 2023 - Aug. 2023

- Implemented **E2E wine quality prediction**. Achieved seamless deployment on **AWS EC2** instances through an integrated **GitHub Actions CI/CD** pipeline, containerized the code with **Docker**, and integrated **MLflow** for experiment tracking and **model registry**.

Amazon Reviewer Network Analysis | Python, NetworkX, Matplotlib, Pandas, Numpy

Oct. 2022 - Dec. 2022

- Analyzed and **identified-cohesive reviewer communities** within Amazon product reviewers. Uncovered valuable patterns in shared item reviews, enabling personalized **product recommendations** to community members.

Color Guessing Game | HTML, CSS, Javascript, Bootstrap

Oct. 2021 - Dec. 2021

- Deployed interactive color guessing game on **Netlify** for seamless access. The game adapts difficulty based on RGB color box count, providing an engaging and challenging user experience.

Technical Skills

Languages: Python, C/C++, HTML/CSS

Familiar Tools: Git/GitHub, DagsHub, DVC, MLflow, Docker, Kubernetes, KubeFlow.

Machine Learning and NLP: LLM, Sklearn, Keras, CNN, RNN, LSTM, NLTK, Transformer, Prompt Technique, RAG, TensorFlow, Networkx, Matplotlib, Pandas, Numpy, Pytorch.

Scholastic Achievements And Position of Responsibility

- Secured the **1st Rank** in the college - year **2018-2019**
- Qualified GATE in **2021 and 2022**.
- Achieved the certificate of excellence in **C++** and **DSA** from **Coding Ninja**.
- Solved **500+ DSA** problems across all platforms including **GFG**, **LeetCode**, and **HackerRank**.
- TA** : Data structure Using Python under **Prof. Kushum kumari Bharti**.
- TA** : Introduction to Data Science Using Python under **Prof. Ayan Seal**.
- TA** : Design and Analysis of Algorithms under **Prof. Avinash Chandra Pandey**.
- TA** : Computer Programming in C under **Prof. Vinod Kumar Jain**.
- TA** : Computer Network under **Prof. Neelam Dayal**.