PRANSHU UPADHYAY

☎ +91-8004238938 ✉ pranshu1840@gmail.com in Pranshu Upadhyay ⊙ pranshu1840

EDUCATION

Birla Institute of Technology And Science - Pilani, Pilani　　　　　**09/2022 – 06/2024**
M.E. Computer Science & Information Systems - **CGPA -** **7.69**　　　　　*Pilani, India*

Pranveer Singh Institute Of Technology, Kanpur　　　　　**08/2016 – 05/2020**
B.Tech Computer Science and Engineering - **CGPA -** **7.17**　　　　　*Kanpur, India*

EXPERIENCE

Samsung R&D Institute India, Bangalore　　　　　**01/2024 – 06/2024**
Intern　　　　　*Bangalore, India*

- Created an audience targeting POC using Streamlit and Hugging Face's Mistral Instruct model, leveraging Transformers and Langchain to segment over 1 million users from Samsung's dataset, boosting targeting precision by 30%.
- Harnessed RAG for document analysis, extracting critical insights from 1,000+ documents with a vector data store for rapid retrieval.
- Optimized deployment with Docker, enhancing performance on a Linux server and achieving a 50% increase in scalability and efficiency.

Tata Consultancy Services　　　　　**02/2021 – 09/2022**
Systems Engineer　　　　　*Pune, India*

- Enhanced data processing efficiency in Azure Data Lake Storage and Synapse Analytics, resulting in a time savings of over 15 hours per week for the data engineering team.
- Improved system reliability by implementing robust development, testing, and production environments with Kibana and Elasticsearch, leading to rapid issue resolution and real-time insights.

PROJECTS

Campus Digest ↗ | *MERN, Tailwind CSS, JWT, Redux Toolkit, Google OAuth, Firebase*　　　**06/2024 – 06/2024**

- Developed a web app for campus news and events, incorporating features like liking, commenting, editing, and dark mode, which increased user engagement by 40%.
- Implemented an admin dashboard with user and post metrics, along with a search functionality, leveraging CRUD operations to streamline user experience.
- Live site here

Kidney Disease Detection ↗ | *TensorFlow, Keras, MLflow, DVC, AWS, MLOps*　　　**10/2023 – 10/2023**

- Designed an end-to-end deep learning pipeline for kidney disease prediction using CNN (VGG16), leveraging advanced MLOps tools like MLflow, DVC, and AWS for efficient model management.
- Integrated DAGsHub for enhanced collaboration and implemented GitHub Actions for CI/CD automation, reducing deployment time by 30% and improving the scalability of the project.
- Optimized model retraining time by 25% through automated pipeline orchestration using DVC and MLflow, enabling efficient tracking of experiments and metrics across kidney disease prediction models.

TA Management System ↗ | *MERN, CRUD, JWT, Bootstrap CSS, Redux, Docker*　　　**02/2023 – 03/2023**

- Engineered a system that improved TA task completion rates by 25% through real-time updates and integration of end-of-semester faculty feedback, significantly boosting overall TA performance.
- Integrated end-of-semester faculty feedback, facilitating continuous improvement and enhancing overall TA performance.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, SQL, NoSQL
Developer Tools: Git, VS Code, Jupyter Notebook, Intellij, Eclipse, Docker, Kubernetes, GCP, Postman, AWS EC2, Sagemaker, Azure, Confluence, Jira, Microsoft SMSS
Technologies/Frameworks: ReactJS, Redux, NextJS, NodeJS, ExpressJS, Flask, MySQL, MongoDB, Django, MLOps, LLMOps, Firebase, TensorFlow, PyTorch, Keras

ACHIEVEMENTS

- 2nd runner up in Snowflake's 1st Great Indian Developer League Hackathon
- GATE 2023 (AIR: 4056)
- Leetcode 300+
- AZ-900 Certified