Sahil Tiwari

PERSONAL INFORMATION

Website | |sahiltiwari1222@gmail.com | LinkedIn | GitHub | Jabalpur, India |

WORK EXPERIENCE

Bambhari
Frontend Developer Intern

- Worked as a Frontend Developer at Bambhari, contributing to the development of a course app similar to Udemy and Coursera.
- Developed and optimised the frontend using React.js, ensuring a seamless user experienceCollaborated closely with the design and backend teams to integrate APIs and deliver a cohesive product.
- Implemented responsive design and interactive features to enhance user engagement.Gained valuable experience in teamwork, agile methodologies, and project management within a dynamic development environment.Enabled users to buy and sell courses effortlessly, improving access to online education and creating a robust platform for content creators and learners.

PROJECTS

Student Performance Indicator

- Developed an end-to-end machine learning and data science project, "Student Performance Indicator," to predict and enhance student performance.
- Tracked experiments and managed models with MLflow.Built a Flask web interface for model interaction and visualization.Used DVC for data and model versioning.
- Automated CI/CD pipelines with GitHub Actions.Optimized model performance with advanced preprocessing and feature engineering.
- Integrated comprehensive logging and monitoring to maintain the reliability and scalability of the deployed model.

Email Spam classifier

- Email Spam Classification project to accurately identify and filter spam emails, enhancing email security.
- Applied NLP techniques using NLTK and Word2Vec for text processing and feature extraction.Employed TF-IDF Vectorizer to transform text data for model training.
- Created interactive visualisations with WordCloud to display key spam indicators.Developed a user-friendly web application using Streamlit for real-time spam email detection.Implemented data cleaning and preprocessing pipelines to ensure high-quality input data.Documented the project comprehensively, including code, methodologies, and user guides, to facilitate seamless handover and adoption.
- **Project Purpose:** This project addresses the critical issue of spam email filtering, offering a sophisticated and reliable solution to improve email management and security for both individual users and organisations, reducing the risk of phishing and malware attacks.

Laptop Price Predictor

- Laptop Price Predictor project to estimate laptop prices based on various features, enhancing purchasing decisions.Built and fine-tuned regression models with Scikit-learn, achieving high accuracy in price prediction.

- Applied feature selection techniques to optimise model performance and reduce complexity.Employed advanced data cleaning methods to handle missing values and outliers, ensuring high-quality input data.

- Designed intuitive user interfaces and visualisations to enhance user experience and engagementImplemented robust validation techniques to ensure the reliability and generalizability of the prediction model.
- Deployed the web application, enabling real-time price prediction and providing actionable insights for users.

  Project Purpose and Benefits: This project addresses the challenge of predicting laptop prices based on various specifications, providing a valuable tool for consumers to make informed purchasing decisions. It helps users understand how different features impact laptop prices and find the best value for their needs, thereby enhancing market transparency and consumer satisfaction.

SKILLS

Core Skills
LLMs, Machine Learning, NLP, MLOps, Deep Learning, Data Science

Tech Stack
scikit-learn,Docker, Fast API, GitHub Actions, Streamlit, Amazon AWS, MySQL, PostgreSQL,render,netlity,Mern stack,mongodb,reactjs

ACHIEVEMENTS

- Selected Participant, Smart India Hackathon (SIH), 2023
- Competed among thousands of participants nationwide.Collaborated with a team to develop innovative solutions for real-world problems.
- Collaborated with a team to develop innovative solutions for real-world problems.

EDUCATION

Gyan Ganga Institute of Technology   *Oct 2022- Present*
Bachelor of Technology, Computer Science; CGPA: 8.35/10