Sakshay Gupta

Dual Degree in Industrial and Systems Engineering, IIT Kharagpur

Sri Ganganagar, Rajasthan - 335001

EXPERIENCE

SigmaRed Technologies Inc. Canada: Software Developer *Remote | 02/24 - Present*

Cyber Risk Assessment Dashboard Project
- Led the development of a Cyber Risk Assessment and Compliance dashboard from inception to deployment.
- Created responsive and user-friendly front-end interface using React, tailored to meet specific client requirements.
- Developed robust backend services using FastAPI, integrated with MongoDB for efficient data management.
- Implemented real-time asynchronous communication channels to support dynamic data exchange and updates in dashboard applications.
- Deployed applications on cloud services and containerized them using Docker for scalable and efficient deployment.

AI Bias Report Dashboard Project
- Built a comprehensive dashboard application for AI Compliance and Risk Management using Angular framework.
- Integrated backend with servers hosting ML models to assess and mitigate bias, ensuring fairness in automated decisions.
- Collaborated with cross-functional teams for seamless integration and functionality of frontend and backend.

Moksh: Software Developer *Bengaluru, India | 01/23 - 06/23*
- Designed and developed a SaaS application that displayed aggregated customer reviews from online marketplaces.
- Utilized React.js to design frontend and employed Django's REST framework to create well-defined endpoints.
- Integrated WebSocket to establish a real-time and asynchronous communication channel, enhancing reliability of data retrieval processes.
- Conducted thorough testing to identify and resolve frontend issues, optimizing overall application responsiveness.

RShifts: Front-end Developer *Delhi, India | 12/21 - 01/22*
- Engineered company portfolio website utilizing React's components and layouts, enabling interactive frontend
- Teamed up with backend developers in order to synchronize frontend and backend of the website for enhanced user engagement.

PROJECTS

Master Thesis Project: Econometric Analysis of Commodity Prices
- Gathered and analyzed dataset of Shimla's potato market to capture key factors influencing price dynamics.
- Applied deep learning model to predict prices, incorporating economic and climatic variables to improve accuracy.
- Utilized Structural Equation Modeling (SEM) to identify causal relationships between potato pricing and factors like crop production costs, market arrival, and economic indicators.
- Demonstrated model effectiveness with low RMSEA and high CFI, influencing policy decisions.
- Provided insights to stakeholders on pricing strategies and supply chain management, enhancing market efficiency and economic stability.

Flickbase
- Crafted a movies recommendation application for creating, maintaining and viewing Articles related to Movies.
- Designed responsive frontend using React.js and Axios along with JWT tokens for the user verification.
- Engineered back-end servers using Node.js and Express.js, integrating MongoDB with Mongoose for data storage.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, Python
Frameworks/Libraries: React.js, Node.js, Angular.js, SQL, Django, Express.js, FastAPI, Azure
Developer Tools: Github, VS Code, Vim, Visual Studio, Blender, Microsoft Management Server, Microsoft Azure

EDUCATION

Indian Institute Of Technology Kharagpur West Bengal, India
Dual Degree B.Tech - M.Tech. in Industrial And Systems Engineering *2019 – 2024 | CGPA: 8/10*

Lav Kush Model School Sri Ganganagar, Rajasthan
Central Board of Secondary Education (12) *2018 – 2019 | 85.6%*

Euro World School Sri Ganganagar, Rajasthan
Central Board of Secondary Education (10) *2016 – 2017 | CGPA: 10/10*