Rishi Kumar
Software Engineer

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Work Experience

Phenx Machine Learning Technologies Inc.   *Cincinnati, Ohio USA*
Data Science Engineering Intern   *December 2023-June,2024*

- Developed and analyzed predictive models using tools such as LSTM and SARIMAX to interpret datasets accurately.
- Created detailed graphs and reports to identify trends and correlations with other factors.
- Provided strategic insights using data analytics for client business expansion based on regional sales data across the USA.
- Participated in code reviews, debugging, and testing to ensure high-quality and efficient code.
- Collaborated with cross-functional teams to improve data analysis and client experience.

Technical Skills: Xgboost , LSTM, , SARIMAX, Ubuntu Linux, ,Hierarchical Clustering, FbProphet, Git, Jupyter Notebooks.
Soft Skills: Teamwork, Time Management, Communication, Presentation skills.

Projects

Dynamic Sentiment Analysis
- Engineered a robust Sentiment Analysis project leveraging BERT and Beautiful Soup for diverse product reviews.
- Utilized React.js and FastAPI with CORS support to create an interactive and efficient cross-platform solution.
- Extracted sentiments from billions of reviews across industries, providing comprehensive analytics.
- Employed Beautiful Soup for seamless extraction of reviews, offering valuable insights from renowned personalities.

Prediction Model
- Developed and implemented an adaptive ML model for various classification problem.
- Logistic regression model from sci kit-learn to predict find ROC and AUC curve and precision ratios.
- Python code used with various Advanced Statistical libraries to load and explore data sets.

Packet Capturing and Replay Project
- Developed a Python-based HTTP TCP server using the 'http.server' and 'socket.server' modules, enabling real-time data response.
- Engineered a TCP client with the 'requests' library and send individual packets from '.pcap' files, ensuring efficient data transfer.
- Implemented robust error handling and security measures for reliable and secure data communication between client and server.

Portfolio
- Created a portfolio website using React.js, and hosted with netlify hosting services showcasing various projects, including machine learning, web development and more.
- Implemented sanity.io as the file management system.

Education

Guru Nanak Institute of Technology   *Kolkata, WB, India*
B.Tech in Computer Science and Engineering (YGPA : 9.04)   *Graduation Date : June 2025*

St. Lawrence High School   *Kolkata, WB, India*
12th Board in Science (Percentage: 91.80%) 10th Board (Percentage: 85%)   *Graduation Date: June 2020*

Skills

Python	SQL	React Js	Typescript
Java	Data Structures	PySpark	Django
Linux	Git and Github	MongoDB	Docker
Web Scrapping	Model Building	Apache	Scripting