Sree Lekshmi Prasannan

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EDUCATION

State University Of New York at Buffalo

Masters in Engineering Sciences in Data Science

Buffalo, New York

January 2023 - May 2024

Coursework: Machine Learning, Numerical Mathematics for Data Scientists, Probability Theory, Statistical Learning and Data Mining, Data Model Query Language, Data Intensive Computing, Time Series, Deep Learning

Shri Shankaracharya Group Of Institutions

Bhilai, Chhattisgarh, India

June 2018- June 2022

Bachelor Of Technology in Information Technology

Coursework: Database Management System, Design Analysis of Algorithms, Object-Oriented Programming, Artificial Intelligence, Discrete Structures, Statistical Methods

SKILLS

Database: MySQL, SQLite, PostgreSQL, NoSQL/MongoDB, Oracle, Firebase, TSQL

Languages - Python, SQL, Pandas, R, HTML, C/C++, Dart, CSS, Java

Framework- PyTorch, Hadoop, Django, FastAPI, RStudio, MATLAB, Pyspark, TensorFlow, Nodejs, Docker

Tools and Technologies - Scikit-learn, Looker, Azure, Tableau, PowerBI, Matplotlib, AWS, SAS, Excel, Business Intelligence

EXPERIENCES

Community School of Arts Foundation

Los Angeles, California

June 2024 - Present

Marketing Analyst

- Architecting machine learning models with **PyTorch** and **TensorFlow** to forecast sponsorship and revenue, targeting a 30% increase in contributions to support over 1000 K-12 students within the first year.
- Executing ETL and data warehousing to integrate Salesforce data with T-SQL, enhancing data retrieval and analysis by 50%.
- Leveraging Tableau, Excel (VLOOKUPs, pivot tables), and statistical analysis to craft targeted marketing strategies and enhance sponsor engagement.

Science and Technology Entry Program (STEP)

Buffalo, New York

Research Aide Analyst

October 2023 - June 2024

- Led Data Analysis Initiatives at STEP, employing advanced forecasting models to enhance student engagement, resulting in a 60% increase in registrations and exceeding annual targets by 200 attendees.
- Improved Student Performance by 30% through the strategic application of scikit-learn's decision trees and random forests to pinpoint and address areas of weakness.
- Devised data-driven enhancements to workshop schedules, increasing student attendance by 35%.
- Formulated **PowerBI reports** and **visualizations** using **DAX** and **KPIs**, improving program strategies and engagement by 25%.

Bhilai Steel Plant

Chhattisgarh, India

Data Analyst, Intern

July 2021 - October 2021

- Developed "E-Gate Pass System", using **FBProphet** algorithm to **forecast** peak traffic, enabling scheduled vendor goods pickup.
- Created a Flutter app for order/vehicle management, using SQLCipher, enhancing vendor engagement and data safety.
- Resolved data integration issues between in-house databases and **Oracle ERP**, ensuring seamless data flow for real-time analytics.
- Implemented QR code entry and used CNN to increase verification speed by 30%, with Sendgrid for 25% faster notifications.
- Received appreciation from General Manager for increasing the order pickups per day by 40% & reducing waiting time by 55%.

CodeSpeedy

West Bengal, India

March 2021 - June 2021

Junior Programmer Built cloud-based services for their enterprise platform to streamline client collaboration.

- Designed a portal where clients can monitor the project progress from the **Kanban board** and stay informed on the delivery date.
- Spearheaded a self-service meeting scheduler application between the client and project manager using a shared calendar.

PROJECTS

ECG Anomaly Detection with LSTM Autoencoders: Pytorch

Feb 2024- May 2024

- Engineering an LSTM Autoencoder in PyTorch for ECG anomaly detection, targeting a 20% improvement in identifying abnormal heartbeats from time series data.
- Fine-tuning anomaly detection threshold via reconstruction loss for 95% **precision** detecting normal from abnormal ECG signals.
- Applying signal **normalisation** and anomaly segmentation in ECG data preprocessing, boosting LSTM Autoencoder detection sensitivity by 5%.

StoryWeaveAI: LLM, gTTS, NLP, Clarifai gRPC

Feb 2024 -April 2024

- Engineered a Streamlit AI Story Generator utilising ChatGPT-3.5 (LLM) for dynamic narrative creation from user inputs.
- Enabled text-to-audio conversion via pyttsx3, enhancing story accessibility and user engagement.
- Refined narrative generation across 5+ genres using Python and **OpenAI's API**, elevating story quality and diversity.

Used Car Auction Price Predictor: Pyspark, Seaborn, Streamlit, PowerBI

Oct 2023- Dec 2023

- Analysed 370,000+ car records for dynamic market valuation, predicting accurate used vehicle prices.
- Employed various regression algorithms including Decision Tree, LSTM, Random Forest, LightGBM, and Gradient Boosting; **XGBoost** led with 79% R² score.
- Optimised an advanced **data pipeline** for CSV uploads, ensuring streamlined preprocessing and **EDA** for real-time car valuation.
- Generated Streamlit visualisations for car **analytics**, enabling custom valuations and brand-age analysis.