

Sree Lekshmi Prasannan

San Francisco, California | +1(716)-253-5168 | sreelekshmip9966@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

State University Of New York at Buffalo

Masters in Engineering Sciences in Data Science

Coursework: Machine Learning, NLP, Probability, Statistical Learning, Data Mining, Time Series, Deep Learning, Discrete Structures

Buffalo, New York

January 2023 - May 2024

Shri Shankaracharya Group Of Institutions

Bachelor Of Technology in Information Technology

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Artificial Intelligence, System Design, DBMS

Chhattisgarh, India

June 2018- June 2022

SKILLS

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

Framework- PyTorch, Django, FastAPI, MATLAB, Pyspark, Node.js, Docker, Agile, Scrum, Jira

Tools and Technologies - Looker, Azure, Tableau, PowerBI, Matplotlib, AWS, SAS, MySQL, PostgreSQL, NoSQL/MongoDB

WORK EXPERIENCES

Community School of Arts Foundation

Machine Learning Engineer

Los Angeles, California

June 2024 - Present

- Architecting XGBoost & SVM to forecast revenue and predict sponsors, aiming for 30% contributions increase for K-12 schools.
- Scraped potential sponsors with Scrapy & BeautifulSoup storing raw data in PostgreSQL for initial processing.
- Unified PostgreSQL with Salesforce CRM data via Snowflake, enabling analytics, ETL processes for ML-based sponsor insights.
- Leveraging Tableau, Excel (VLOOKUPS, pivot tables), statistical analysis and visualization to develop targeted marketing tactics.

University at Buffalo- SUNY (STEP)

Research Aide Analyst

Buffalo, New York

October 2023 - June 2024

- Led Data Analysis Initiatives at STEP, harnessing forecasting models and A/B testing to analyze and improve student engagement
- Improved Student Performance by 30% using scikit-learn's decision trees and random forests to identify areas of weakness.
- Formulated PowerBI reports and visualizations using DAX and KPIs, improving program strategies and engagement by 25%.

Bhilai Steel Plant

Software Developer, Intern

Chhattisgarh, India

July 2021 - December 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

Junior Programmer, Intern

West Bengal, India

March 2021 - June 2021

- Worked on the company's job portal using Node.js and React, improving interaction between recruiters and candidates.
- Used Okta for role-based access for recruiters and applicants, RDS to store user data and resumes in AWS S3 for higher availability.
- Used DynamoDB to store job posts and indexed with Elasticsearch, reducing job latency by 30%
- Notified applicants of their status via SendGrid and integrated Zoom API for interview scheduling with URL emails automating.

PROJECTS

SymptomSense AI: PyTorch, Flask, NLTK

- Designed medical chatbot using NLP & PyTorch, reaching 100% symptom classification with KNN & ensemble learning.
- Constructed multi-model system (KNN, SVM, Logistic Regression) achieving **96%** accuracy in disease prediction.
- Built Flask API to process symptom queries and provide medical recommendations with 85% confidence across 40+ symptoms.

Carbon Emission Analyzer Tech: Nodejs, React, AWS Services

- Developed an API driven serverless backend using AWS Lambda and API Gateway for autoscaling and reduce cost
- Setup CI/CD for frontend and backend using AWS Amplify to validate and automate deployments
- Implemented a chatbot using AWS Lex to easily log purchased products and calculate carbon emission
- Integrated DynamoDB with Elasticsearch to visualize and analyze metrics in Kibana, like product vs emission

StoryWeaveAI: LLM, gTTS, NLP, Clarifai gRPC

- 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.