Suvimal Yashraj

Los Angeles, California| 213-551-6052 | suvi.yashraj@gmail.com| LinkedIn: suvimalyashraj| GitHub: github.com/SuvimalYashraj

EDUCATION

University of Southern California   **May 2023**
Masters in Computer Science

Manipal Institute of Technology   **July 2018**
B. Tech, Information Technology   CGPA 9.21/10

WORK EXPERIENCE

Optum - United Health Group   **July 2018-July 2021**
Software Engineer   Noida, India
- Led multiple projects as a Business Analyst in an Impact DevOps team following an Agile(SCRUM) model in Medical and Pharmacy Claim domains. Each project involved information gathering from the clients, devising a deployment plan by analyzing data to best incorporate the changes in the system, analyze the impact of changes by complex queries and views in SQL and present solution in Client forums.
- Responsible for client management, impact notifications to business users, delegating tasks to ETL team, collaborating with cross functional teams - Quality Assurance & DBAs, and perform production testing/checkouts to ensure strategic deployment of project in Production environment. Contributed in reducing time to build of projects by 4% and shelf life of tasks by 6% in Rally.
- Developed a web application to predict customer churn -- generate score to determine how likely customers are to drop out of insurance plans on basis of comments and ratings by text mining and sentiment analysis in Python.

Ericsson   **January 2018–June 2018**
R&D Intern   Gurugram, India
- Designed a flow for monitoring performance metrics of a continuous job utilizing Apache Flink.
  Created a sample unbounded data stream as a Flink job, introduced custom metrics with available metrics in Flink job. Fetch these metrics as JSON data via REST API and integrate it with a reporter like Prometheus to display metric values. Implemented Grafana to scrape metrics available on Prometheus to provide a better UI.
- Created REST APIs in SPRING framework through a Tomcat Server for an application where employees can access tasks. REST APIs made included login, logout, add new task, access a task.

Orane Consulting   **May 2017–June 2017**
Application Developer Intern   Noida, India
- Devised an Onboarding mobile application for InterGlobe Enterprises Pvt. Ltd deploying the Ionic Framework. Javascript was used for backend and HTML/CSS for user interface of mobile application.

PROJECTS

- Little Go – Developed an AI Agent that plays the game Go against humans or other agents using Reinforcement Learning and alpha-beta with a heuristic function for fast and efficient search in Python.
- Gensini Score Prediction – Developed a data analytics and prediction module to identify risk of coronary artery disease (CAD) in four metabolic groups by calculating the Gensini score indicating severity of CAD. Neural Network, LASSO & Ridge Regression models were used to predict the Gensini score utilizing prognostic markers such as HBA1C, HDL, BMI, LDL, etc. in R.
- Cardigram – Android Application to warn about potential diseases based on medical data of a user operating Naïve Bayes algorithm and display health statistics using data analysis through customizable graphs. An easy and secure way to maintain medical records with a real-time chat feature having end-to-end data encryption.
- Digit Classification – Built a neural network to classify handwritten digits in Python using feedforward and backpropagation techniques without the help of preexisting libraries.
- Movie Recommender – movie recommendation system based on Item Collaborative Filtering using Hadoop MapReduce in Java to provide high parallelism and computation power to utilize the large dataset.

SKILLS & INTERESTS

- Skills: Python, Java, C++, R, SQL, Android Studio, Cloud, Apache Flink, Ionic, HTML, Spring, Agile, Communication
- Interests: Data Science, ML, AI, Math, Problem Solving, Sports, Reddit, Podcasts