SAI RAGHAVENDRA VIRAVALLI

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EDUCATION

Northeastern University Boston, MA

Master's of Science in Information Systems Expected May 2023

Relevant Coursework: Data Science, Parallel Machine Learning, Big Data Systems

Vellore Institute of Technology Vellore, India

Bachelor of Technology in Computer Science Engineering

June 2020

TECHNICAL SKILLS

Programming Languages: C++, Python, Shell, R, SQL

Data Science Technologies: Sklearn, Keras, Pytorch, TensorFlow, scikit-learn, CNN, Neural Networks,

Databases: PostgreSQL, MySQL, Big Query, MongoDB **Data Visualization:** Data studio, Tableau, Microsoft Power BI

Cloud tools: GCP, Azure, Docker, Git, Airflow, Spark, Beam, AWS

EXPERIENCE

Executive Analyst Mar – Aug 2021

Deloitte Touche Tohmatsu Ltd

Bengaluru, India

- Improved net banking performance by 25% through designing and developing back-end services using NestJs and React for a top private bank in India
- Developed microservices for APIs using gRPC, reducing client costs by 10x and increasing efficiency by 15%
- Implemented Jira boards to capture and track client's business demands during stakeholder meetings
- Migrated client's database systems to AWS EC2, and implemented an automated queried system using PostgreSQL for data reports, resulting in cost savings and scalability

Networking and Security Intern

May-Aug 2018

Sify Technologies Ltd

Chennai, India

- Created a chatbot using RNN and LST in Python for the networking department, resulting in 15% time-saving
- Developed networking tools such as ping, traceroute, ipconfig in Python, and automated multiple shell commands for large data execution, resulting in time savings

ACADEMIC PROJECTS

Spotify Recommendation and Prediction Analysis

May- Aug 2022

- Evaluated Machine Learning models on Spotify API data and selected the best based on R2 Score
- Developed two genre-based recommendation systems using k-means clustering of audio features:
 - o Built a content-based recommendation system that ingests data from the user's playlists using Spotify API
 - o Developed a neural Collaborative Filtering recommendation system using TensorFlow, resulting in playlists based on user's preferences using model rankings

Twitter Marketing Campaign Analysis

Jan-May 2022

- Designed an ETL pipeline for Twitter API data analysis based on keywords, utilizing Airflow and Apache Beam for data transformation and storage in Big Query
- Implemented sentiment analysis with Hugging Face models on AWS Lambda and deployed in FastAPI framework on GCP App Engine, with JWT authentication
- Displayed relevant news based on named entities using open-source News API and real-time metrics on a Google Data Studio dashboard embedded in the WebApp

Restaurant Management System

Sept-Dec 2021

- Developed software for inventory, online ordering, employee stats, and sales using SQL and Python
- Optimized business metrics through database design and python functions for staffing, pay by phone bill generation and top seller forecasting
- Used Tableau to build a live dashboard providing metrics, data analysis and data insights

LEADERSHIP EXPERIENCE

CRY-Child Rights and You

Outreach Director and Project lead

May 2018 – Mar 2020

Vellore, India

- Led growth of organization, established partnerships with NGOs, and executed large-scale projects
- Developed and implemented programs for language training, life skills, career prospects, and personal development, resulting in increased retention and recognition at a national level
- Increased annual budget by 80% through grant writing, CSR relations, and fundraising events, securing Rs. 3,00,000