

SAI RAGHAVENDRA VIRAVALLI

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EDUCATION

Northeastern University, Boston, MA

Sep 2021-May 2023

Master's of Science in Information Systems

Relevant Coursework: Data Science, Parallel Machine Learning, Big Data Systems, Machine learning in Finance

Vellore Institute of Technology, Vellore, India

Jul 2016- Jun 2020

Bachelor of Technology in Computer Science Engineering

Relevant Coursework: Data mining, Natural language processing, Statistics, Data Structures and Algorithms, Database Management Systems

TECHNICAL SKILLS

Programming Languages: Python (NumPy, Pandas, Flask), Java, SQL, Shell, R, C++, JavaScript

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

Databases: PostgreSQL, MySQL, Big Query, MongoDB

Data Visualization: Data studio, Tableau, Microsoft Power BI, Alteryx, SAS, Seaborn, Plotly

Tools: Microsoft Excel, JIRA, API Integration

Frameworks: COBIT, Agile, Scrum, Waterfall, Kanban, IT Governance

Cloud & Devops tools: Google Cloud Platform (GCP), Azure, Docker, Git, Airflow, Spark, Beam, AWS, Kubernetes

EXPERIENCE

Jersey Stem, Remote, US

Aug 2023 – Apr 2024

Data Analyst

- Lead data extraction initiatives for non-profit tech companies utilizing **GCP** and **Big Query**, achieving 20% process optimization
- Developed and implemented comprehensive data-driven strategies, resulting in a 30% increase in program effectiveness, 25% growth in donor acquisition through targeted campaigns, and a 15% increase in long-term donor engagement
- Played a pivotal role in **Salesforce** integration, securing a noteworthy boost of \$150,000 in funds through enhanced tracking and **streamlined** automated communication processes

Northeastern University – College of Engineering, Boston, MA

May 2022 – Mar 2023

Program Assistant

- Spearheaded a collaborative research project with a cross-functional team of marketers, data scientists, and researchers to enhance marketing campaign effectiveness based on applicant data for the university
- Utilized **Python**, **R**, and **Tableau** for data analytics and machine learning, achieving a 79% ROI from -45% from targeted marketing efforts and 3.5X response rate after implementing models

Deloitte Touche Tohmatsu Ltd, Bengaluru, India

Mar 2021 – Aug 2021

Executive Analyst

- Integrated **ML** models for a leading private bank's net banking, boosting fraud detection by 25% and saving over \$300,000
- Orchestrated the design and implementation of **ETL** pipelines using **AWS** services, automating data extraction from 7 diverse sources, processing 100GB of data daily, and reducing data synchronization time by 40%
- Facilitated **agile** ceremonies, including sprint planning, reviews, retrospectives, etc., on **JIRA** as a **Scrum** Master for a team of 20+ Dev/Testers across multiple pods. Achieved rapid and predictable delivery, consistently meeting 96% of milestones

Akriti Consulting, Chennai, India

Jun 2020– Mar 2021

Data Scientist

- Guided **AWS** cloud migration for a financial firm, optimizing data handling with **Sage Maker**, **Glue**, and **Athena**
- Enhanced time series **regression** model with a branched **CNN** architecture, achieving a 10% accuracy boost
- Identified and cleansed 3% erroneous training data, improving model accuracy through advanced **data analysis**
- Implemented **data cleaning** strategies, resulting in a 95% reduction in data inconsistencies and an 80% decrease in **data errors**

ACADEMIC PROJECTS

Political lean between news sources Analysis

Sept 2021 – Dec 2021

- **Scraped** web data of 80,000 comments from Reddit using **R** and 100,000 tweets of news sources to analyze the political leanings of the data
- Utilized sentiment analysis, bi-grams, and word associations to demonstrate bias in various sources, effectively visualizing findings
- Used Random Forest, XGBoost, and Regression; XGBoost achieved 85% accuracy classifying articles by political bias

Restaurant Management System

Sept 2021 – Dec 2021

- Created relational database design for hospitality industry & executed it leveraging **SQL** Server & **data** modeling tools
- Developed database tables, views, stored procedures, common table expressions, procedures, database triggers
- Optimized business metrics through database design and using **python** functions for various functions
- Used **Tableau** to build a live dashboard providing metrics, data analysis and data insights