Rahul Sawhney

408-784-4269 | rs6946@nyu.edu | linkedin.com/in/rahulsawhney1 | github.com/rahulsawhney1

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks and Tools: Flask, Git, Docker, Hadoop, Hive, Pig, Spark, AWS, Tableau
Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, Tensorflow, PyTorch

Experience

Software Engineer Intern May 2022 - Aug 2022
LexisNexis Risk Solutions *San Jose, CA*

- Built a predictive platform using graphsage and neural networks to identify fraudsters through behavioral biometrics
- Improved accuracy of team's flagship model by 6% by adding behavioral biometric data
- Wrote a more scalable and efficient data query process to decrease runtime from 30 minutes to under 5 minutes
- Integrated gradient boosted decision trees to strengthen model by decreasing the imbalanced class issue
- Mentored 2 new interns, offering guidance on numpy and pandas, and supporting them in their projects

Software Engineer Intern May 2021 - Aug 2021
LexisNexis Risk Solutions *San Jose, CA*

- Developed a anomaly detection system utilizing a fusion of Fast Fourier Transformation and Long Short-Term Memory (LSTM) algorithms, achieving a recall score of 0.94.
- Designed and implemented a comprehensive data pipeline leveraging Python, PostgreSQL, JavaScript, and Docker for efficient data querying, retrieval, analysis, interpretation, and visualization.
- Prototyped plans to further scale the algorithm by adding elements from ARIMA and seq2seq algorithms
- Participated in planning meetings with PMs to determine feasibility of company wide adoption of pipeline

Projects

GTA V User Segmentation

- Placed first at Rockstar Game's NYC Datathon
- Leveraged 4 datasets on GTA V player activity to classify players based on their level of interest in the game
- Combined classification and regression models to cluster and identify super users based on engineered features

Seismos

- Received the best website award at the HSHacks Hackathon
- Worked in a team of 3 to pull data from public API's to predict and send data about earthquakes directly to users' mobile devices
- Created a website using HTML, CSS, and Javascript to supplement our main product and succinctly summarize its uses and benefits

Language Detection Model

- Designed a model using TensorFlow that utilized CNNs and Vision Transformers to predict the language of any given image with 95% accuracy
- Wrote a Selenium script that generated thousands of images across 11 different languages
- Drafted detailed documentation of code on Github, including instructions on how to replicate project results

Education

New York University GPA – 3.8
Bachelor of Arts in Computer Science and Data Science *2019 – 2023*
Dean's List *2020 - 2021*

Relevant Coursework

Computer Science: Data Structures, Basic Algorithms, Parallel Computing, Machine Learning
Data Science: Responsible Data Science, Causal Inference, Deep Learning
Math: Calculus, Linear Algebra, Discrete Mathematics, Probability and Statistics