SASHANK SILWAL

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WORK EXPERIENCE

Binance April 2024 – Present

Data Scientist: Risk Al

Dubai, UAE

- Developed macro fraudulent forecasting model (RNN) using TensorFlow (Python), enhancing temporal dependency capture by 5%, resulting in a 4% increase in the detection rate of anomalous transactions
- Utilized Spark for data preparation, conducting extensive exploratory data analysis and feature engineering, increasing the dataset's comprehensiveness by 20%
- Presented complex data science concepts through stakeholder presentations, resulting in the adoption of new policies.

Bearaby Somnos Tech: DIFC

July 2023 - April 2024

Data Analyst

Dubai, UAE

- Executed comprehensive market analysis for weighted blanket in Europe, developing a data-driven entry strategy targeting an 8% market share in the DTC and ecommerce sectors
- Conducted A/B testing to refine product attachment rates, significantly boosting cross-sell and up-sell strategies
- Led analysis of customer purchase behaviors using SQL, achieving a 16% boost in targeted marketing effectiveness
- Executed market basket analysis identifying key cross-selling opportunities, leading to a 15% increase in cross-sell
 performance.

Vanilla®: Estate Advisory Platform

June 2022 - August 2022

Software Engineering Intern

Los Angeles, CA

- Enhanced in-app user experience by designing React components, increasing user engagement by 7%
- Streamlined the GraphQL layer (Rails), achieving a 30% improvement in retrieval & update times for PostgreSQL attributes
- Collaborated with the Product Team on the engineering design doc to implement 3 new service driven backend features.

RESEARCH EXPERIENCE

CommNets Lab: New York University Abu Dhabi

January 2022 - May 2023

Machine Learning Researcher

Abu Dhabi, UAE

- Engineered and deployed a neural network model using Kotlin on a mobile browser to classify and block JavaScript code, resulting in a 27% improvement in web page load time for underserved countries.
- Compiled a comprehensive dataset of 127,000 JavaScript elements labeled with categories by extracting 500,000 elements from 20.000 popular web pages.
- Collaborated with Nokia Bell Labs to design models and perform browser performance analysis utilizing WebPageTest.

Center For Global Sea Level Change

May 2021 - August 2021

Machine Learning Intern

New York (Remote)

- Implemented and evaluated a Bayesian probabilistic model for predicting long-term shoreline changes given geomorphological and geologic settings under different sea level rise scenarios
- Processed, interpolated, projected geospatial data to build a dataset of over 12 million data points
- Wrote customized Python scripts to create map intersections and model predictions that shortened run time from over 6 hours to under 20 minutes.

PROJECTS

DYOR: Crypto Analysis Web App (MERN stack)

GitHub

• Led a team of 3 to implement sentiment analysis, price prediction, and virtual coin portfolio features on a web application.

Face Mask Detection using transfer learning (CNN, OpenCV, Transfer Learning)

GitHub

Developed a complete face tracking and face mask detection solution to monitor mask guidelines violations in real-time.

EDUCATION

New York University Abu Dhabi (GPA: 3.96)

May 2023

Bachelor of Science in Computer Science, Minor: Applied Mathematics, Interactive Media

Abu Dhabi, UAE

SKILLS

Programming Languages: Python (Pandas, NumPy, Pgmpy, scikit-learn), JavaScript, CSS C++, SQL

Framework & Tools: Git, Docker, Spark, Hive, CircleCl, GraphQL, Firebase, MongoDB, PostgreSQL, TensorFlow, GCP, AWS

AWARDS

Best Presentation Award, Quantum Hackathon for Social Good in Arab World

April 2022