

Saarthak Mehra

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Education

University of California, San Diego Class of 2021

- B.S. Cognitive Science, Emphasis in Machine Learning and Neural Computation
- Minor in Computer Science
- GPA: 3.73

Experience

American Express – Remote January 2021 – Present
Software Engineer

- Automating data sourcing pipeline for management reporting with Scala and Informatica
- Facilitating a migration from Spark/Scala to PySpark throughout my team's data pipeline
- Developing data mappings for 5 key performance metrics based on ~50 dimensions

American Express – Phoenix, AZ Summer 2020
Software Engineering Intern

- Developed a web application to automate the analysis of financial transaction data
- Built Python library of data analysis and parsing functions for a data profiling pipeline

Bedrock Analytics – Oakland, CA Summer 2019
Software Engineering Intern

- Developed predictive model to assess discontinuation risk with FbProphet forecast tool
- Integrated predictive model into data pipeline using AWS Lambda, S3, and API Gateway
- Wrote SQL queries to extract product and discontinuation data from existing databases

Research & Leadership

San Diego Supercomputer Center Spring 2020 – Winter 2021
Undergraduate Researcher

- Performed feature extraction on 30 GB of satellite images of San Diego County
- Developed image clustering pipeline using Dask and Kubernetes
- Compared runtime and memory usage of kmeans clustering between Dask, Spark, and Sci-Kit Learn frameworks

DataHacks: UCSD's Data Science Hackathon Fall 2019 – Spring 2020
Technical Director @ Advanced Tract

- Designed the advanced tract for the hackathon; more than 100 attendees participated
- Cleaned and organized my tract's data to allow for geolocation & forecasting
- Led a time-series workshop exploring ARIMA, SARIMA, and other forecasting models

Skills and Interests

- Technical Tools: Python, Java, C/C++, JavaScript, SQL, Informatica, Spark, Hadoop
- Coursework: Algorithms, Data Structures, Machine Learning, Linear Algebra
- Hobbies: Music Production, Mastering/Audio Engineering, Indian Classical Vocals