Ryan Sandan

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Education

University of California, Berkeley May 2022
Bachelor of Arts in Data Science *Berkeley, CA*

Technical Skills

Languages: Python, SQL, R, Java, C++, HTML, CSS, Javascript
Libraries: Pandas, NumPy, Seaborn, Plotly, Matplotlib, Keras, TensorFlow, Scikit Learn, PySpark, PyTorch, XGBoost,
Developer Tools: DataBricks, Snowflake, Spark, Hadoop, Github, Docker, Google Cloud Platform, Visual Studio, Airflow
Business Intelligence: Tableau, Power BI, Excel, PowerPoint, Salesforce Analytics, Adobe Analytics, Power Automate

Professional Experience

Data Analyst III June 2022 – Present
Juniper Networks *Sunnyvale, CA*

- Built ETL pipeline using Python, SQL, Snowflake, DataBricks, and Tableau to capture and visualize YoY carbon emissions from Juniper's customers use of hardware products; achieved A- rating in CDP Climate Disclosure 2023.
- Automated live dashboard data integration from third-party APIs to Snowflake using Python and SQL scripting, resulted in saving 20 hours of manual effort done quarterly
- Led Tableau/Power BI dashboard visualization, development, and server management for multiple teams, automated 15 dashboards via Snowflake and Power Automate Workflows with daily/monthly scheduled refreshes saving 75+ hours of annually

Legal Technology Analyst Intern June 2021 – June 2022
Juniper Networks *Sunnyvale, CA*

- Developed Tableau dashboard tracking outside counsel spend across 75+ firms and 1000+ matters, enabling 15% cost savings through rate negotiations and matter scoping
- Deployed live Tableau dashboard via Snowflake connection visualizing HR data across 10k+ employees to identify risk profiles and compliance training needs, increased completion rates by 30% in certain business units

Course Assistant January 2021 – May 2022
UC Berkeley College of Data Science, Computing, and Society *Berkeley, CA*

- Assisted 120+ overall students across 3 data science courses (1 intro and 2 upper-level)
- Managed weekly office hours to provide technical and conceptual support for students

Aerospace Scholar / Software Developer September 2019 – March 2020
NASA *Stennis Space Center, MS*

- Programmed rover mission routes to retrieve rocks and execute rescue missions using GoPiGo and Python
- Awarded 2nd place in team rover competition evaluating rover performance, budgeting, and communication

Projects

Next Man Up: Player Clustering for Talent Identification | *vscode, pandas, numpy, matplotlib, sklearn, nba api, seaborn*

- Implemented clustering model to group NBA, G League, and NCAA players based on box score statistics enabling: potential role player replacements, scouting emerging talent, and contingency planning for injuries or trades
- Developed data preprocessing pipelines to normalize datasets from nba.com (stored in MongoDB Atlas) and utilized t-SNE to implement dimensionality reduction and visualize clusters

Social Determinants of Health | *python, numpy, geopandas, seaborn, folium, matplotlib, excel, googlev3, jupyter notebook, excel*

- Volunteered to develop HIPAA-compliant interactive map tracking high-risk community needs across the triad region in North Carolina for Atrium Health, logged by Community Health Workers to optimize resource allocation

Tweet Analysis | *python, numpy, pandas, seaborn, matplotlib, regular expressions, jupyter notebook*

- Perform exploratory data analysis on tweets from several high-profile public figures scraped from Twitter API
- Top 10 most frequent hashtags and mentions, distribution of tweets by time of day, and sentiment polarity scores