Rohan Anand

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EXPERIENCE

Data Services Intern   May 2024 – August 2024
C^2 Data Technology   *Boston, MA*
- Developed a Python program that generates realistic personal information, enabling the team to efficiently train an ML model to detect and obscure sensitive data
- Implemented flexible data generation features to control test data volume, helping to identify gaps in model performance
- Created a program that processes database structures formatted in JSON to automatically label columns, improving model accuracy
- Formulated test code to validate OpenSearch functionality in a ML model comparing metadata between tables

Data Analyst Intern   Jun. 2022 – Aug. 2022
AS Insurance Agency   *Manchester, NH*
- Concatenated personal information from 1,000+ customers and corresponding insurance statements from 1,500+ declaration pages using Pandas
- Constructed SQL queries on Snowflake to group customer data based on location, premium rates, etc.
- Developed 10-15 dashboards on Tableau to target customers due for renewal, organized by insurance type and state
- Provided quotes for 5-10 customers per week with expiring insurances over the phone and in-person, retaining over 95% of clients

Website Design Intern   Jun. 2018 – Aug. 2018
Fidelity Investments   *Merrimack, NH*
- Collected 10-12 weeks of traffic data from Fidelity Investment's website in Excel
- Created 7-8 dashboards on Tableau to highlight important trends in the data
- Designed a user interface for a new website presenting the dashboards with detailed descriptions in a visually-friendly schema
- Presented design to Senior VP of North America

DS Undergraduate Tutor   March 2023 – December 2024
Boston University   *Boston, MA*
- Tutored 10 - 15 students each week enrolled in Multivariable Calculus, Applied Statistics, Data Science in Python/Rust, etc.

PROJECTS

Police Misconduct Data Analysis for NLG | *Python*   Oct. 2024 – December 2024
- Analyzed internal investigation findings (2011-2020) for Massachusetts National Lawyers Guild using statistical methods and machine learning techniques
- Developed a RAG LLM system using OpenAI's ChatGPT to recommend objective punitive outcomes based on allegations and IA/citizen descriptions, trained on Boston Police Department rules and procedures
- Visualized differences between AI-recommended disciplinary actions and actual outcomes, focusing on variations across officer ranks and past disciplinary records
- Implemented advanced text analysis to classify misconduct severity, and created interactive maps of Boston police districts depicting relationships between officer allegations and median household income
- Selected as top project to present findings to data science faculty and client at Boston University Spark!'s Demo Day

Analyzing Boston's 311 Service Requests | *Python, PowerBI*   Sep. 2023 – Dec. 2023
- Developed a database of 2.7M+ Boston 311 service requests over 12 years, with daily API updates, to analyze community service equity
- Created interactive graphs using ipywidgets to identify trends in request volume, submission sources, and resolution times across neighborhoods
- Constructed a PowerBI map encoded with social vulnerability index to visualize leading requests by area
- Produced and presented a PowerBI report analyzing disparities in request types and resolution times across income levels, including proposed solutions at Boston University Spark!'s Demo Day

Modern Data Pipeline for Analyzing Covid-19 | *Azure, SQL, PowerBI*   Jan. 2023 – May 2023
- Analyzed Covid-19 spread and policy effectiveness across 10 countries using Azure Data Factory and PowerBI
- Integrated diverse data sources (JSON, Parquet) from data lakes into a unified fact table with star schema design
- Created interactive visualizations to identify trends and effective policy implementations for minimizing impact

TECHNICAL SKILLS

Languages: Python, R, SQL, Rust | **Softwares**: Azure, Tableau, Snowflake, MySQL | **Developer Tools**: Git, PowerBI, VS Code, Excel, Word, Powerpoint | **Libraries**: pandas, NumPy, Matplotlib, seaborn, scikit-learn, TensorFlow, MySQLConnector

EDUCATION

Boston University   Boston, MA
B.S. in Data Science | Dean's List: 2022 - 2025 | Mentor in BU DS Mentorship Program   *09/2021 – 01/2025*