Mridula Kalluru

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EDUCATION

Syntax Technologies   **Apr. 2023**
Data Analytics Training   Washington, DC
- **Relevant coursework:** Data Visualization and Storytelling, Data Engineering, Data Manipulation
- **Tools:** SQL (MySQL, Oracle), T-SQL (SQL Server Management Studio), ETL (SSIS), Power BI, Tableau, Python (NumPy, Pandas, Matplotlib)

Virginia Commonwealth University   **May. 2021**
Bachelor of Science, GPA: 3.8/4.0   Richmond, VA

WORK EXPERIENCE

Icahn School of Medicine, Mount Sinai   **Feb. 2022 – Mar. 2023**
Data Associate, Research   New York, NY
- Utilized strong analytical skills to process and interpret large volumes of raw data with attention to detail and precision.
  - Conducted in-depth data analysis, data profiling, and validation on oncological clinical trial datasets using SQL (MySQL) to ensure data accuracy, supporting 5 new clinical studies.
  - Utilized Python and Excel/CSVs for genetic database analysis, identifying 10+ potential therapeutic targets and contributing to 3 new treatment strategies.
- Developed and maintained data dashboards/reports in Power BI and Tableau, identifying patterns/trends, improving patient care strategies by 20%, and informing strategic planning.
- Worked with non-IT professionals such as product owners, stakeholders, and business analysts, collected analytical requirements, implemented data analytics solutions accordingly, and supported QA testing.

Virginia Commonwealth University - Physics Dept.   **Feb. 2020 – Jan. 2022**
Data Analyst Intern   Richmond, VA
- Developed Python scripts to automatically import data into the database, which increased efficiency by 30% by saving 15 hours of manual work each week.
- Applied statistical methods and data analysis techniques to analyze research data regarding developing personalized orthopedic bio-nanotechnologies.
  - Uncovered valuable insights that informed several critical decision-making processes within the project.
- Presented findings and projects.

PROJECTS

Breast Cancer Detection Model: Python(Pandas, NumPy) and machine learning algorithms(logistic regression, decision tree, random forest) were used to detect breast cancer.
Spotify Report: Created a report using Power BI along with Python, HTML, and DENEB to show key insights about data from Spotify.
Bank Loan Dashboard: Extracted, transformed, and loaded data with SQL, then visualized using Tableau.
Tic Tac Toe with AI opponent: Created a Tic Tac Toe game with player vs player and artificial intelligence game modes. Used Python and its Pygame module, object-oriented programming, and the minimax algorithm**.**

SKILLS & INTERESTS

- **Technical skills:** SQL (MySQL, Oracle), T-SQL (SSMS), ETL (SSIS), Power BI, Tableau, Python (Numpy, Pandas, Matplotlib), Relational and Dimensional Data Modeling (Star, Snowflake), CSS, HTML, JavaScript, Microsoft Office Suite, Figma, Agile, Scrum
- **Soft Skills:** Communication, Self-starter, Detail-oriented, Critical Thinker, Requirements Analysis, Team Player