

TANISHQ D. KAUSHIK

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EDUCATION

University of Maryland, College of Information Studies

Master of Science (M.S.), Information Management (Data Science Specialization) (GPA: 3.8/4.0)

Bachelor of Science (B.S.), Information Science (Data Science Specialization), Minor: Statistics,

Dean's List for 3 semesters

College Park, MD

May 2023

May 2021

TECHNICAL SKILLS

- **Data Science:** Python (NumPy, pandas, scikit-learn, Requests, BeautifulSoup), SAS, R
- **Programming Languages:** Python, Java
- **Database Management:** MySQL, Amazon RDS
- **Cloud Computing:** Microsoft Azure
- **Data Visualization:** Tableau, Power BI, AWS QuickSight

TECHNICAL EXPERIENCE

START Database Consulting Internship

Jan. 2023 – May 2023

- Designed and developed a relational database using SQL for efficient storage and retrieval of information from Big Data Excel Sheet.
- Drafted an Entity Relation Diagram (ERD) schema and normalized the database to the third normal form.
- Transformed the data into tables using Python scripts and uploaded tables onto Amazon RDS using insertion scripts, allowing users such as academic researchers, government agencies, and the public to search for and access documents related to terrorism using keyword variables, thus filling the knowledge gap, and reducing redundancy in research.

Machine Learning-Enhanced Predictive Modeling for Diabetes Diagnosis using R ([View Full Project](#))

Jan. 2023 – May 2023

- Conducted logistic regression to predict diabetes diagnosis using age, gender, and BMI as predictors.
- Prepared the dataset by converting height and weight to SI units, calculating BMI, and recoding variables for analysis.
- Explored the dataset, revealing key statistics: 38.28% were obese, 58.06% were female, and 15.38% had diabetes, with an average age of 46.85 and BMI of 28.78.
- Visualized data with bar plots and scatterplots to understand the distribution of insurance types, smoking habits, and relationships between variables.
- Performed logistic regression, indicating that age, BMI, and gender significantly influence the likelihood of diabetes diagnosis.
- Provided coefficients and log-odds changes for each predictor.

Statistical Analysis of BRFSS Data using R ([View Full Project](#))

Jan. 2023 – May 2023

- Analyzed data from the Behavioral Risk Factor Surveillance System Survey (BRFSS) to explore differences in physical health.
- Utilized a 2010 survey dataset with 3260 observations and key variables, including "PHYSLTH" (Number of Days Physical Health Was Not Good) and "SEX", and recoded "Don't Know/Not Sure," "Refused," and "None" values in "PHYSLTH" to NA.
- Examined data distribution through summary statistics and data visualization, revealing differences in median physical health days.
- Conducted a one-tailed Wilcoxon test, resulting in a p-value of 0.1725, failing to reject the null hypothesis.
- Concluded that there's no statistically significant evidence indicating greater physical health differences between males and females.

Visualizing the Global Impact of Climate Change Using Tableau ([View Full Project](#))

Feb. 2022 – May 2022

- Utilized World Bank datasets for a captivating data comic project.
- Explored key environmental indicators, including forest area, fossil fuel consumption, CO2 emissions, and renewable energy use.
- Narrated the evolving climate change landscape through data visualization.
- Examined nations' responses to climate change, particularly in energy choices.
- Conveyed a clear message about the need for policy initiatives to combat climate change.

PROFESSIONAL EXPERIENCE

University of Maryland – Head Teaching Assistant for INST326 (*OOP For Information Science*)

Aug. 2022 – May 2023

- Managed a team of 4 TAs on behalf of the professor.
- Taught Object-Oriented Programming concepts, principles, and methods.
- Taught how to design, program, test, and debug python applications to approximately 60 students.

University of Maryland – Graduate Teaching Assistant for INST414 (*Data Science Techniques*)

Aug. 2021 – May 2022

- Covered the complete Analytical funnel from data extraction and cleansing to data analysis, insight interpretation and visualization.
- Taught NLP concepts and a variety of linear and non-linear classification methods.
- Graded class assignments, discussions, and hosted internal Kaggle competition among students to provide practical application of data science methods.
- Held office hours for approximately 40 students and helped with data science projects.

University of Maryland – Community Assistant

Jan. 2018 – May 2021

- Assisted on-campus students regarding their housing and miscellaneous needs to promote an improved living experience.
- Managed the data entry and data quality of a sensitive database containing data on approximately 600 students.
- Utilized conflict resolution techniques to deescalate problems with both students and parents on campus.