# TANISHQ D. KAUSHIK

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## EDUCATION

University of Maryland, College of Information Studies — **College Park, MD**
Master of Science (M.S.), Information Management (Data Science Specialization) (GPA: 3.8/4.0) — **May 2023**
Bachelor of Science (B.S.), Information Science (Data Science Specialization), Minor: Statistics, — **May 2021**
Dean's List for 3 semesters

## 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

**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 between males and females.
- Utilized a 2010 survey dataset with 3260 observations and key variables, including "PHYSHLTH" (Number of Days Physical Health Was Not Good) and "SEX."
- Recoded "Don't Know/Not Sure," "Refused," and "None" values in "PHYSHLTH" to NA.
- Examined data distribution through summary statistics and data visualization, revealing differences in median physical health days between genders.
- 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.

**Statistical Analysis of COVID-19 Patient Data using R (View Full Project)** — **Jan. 2023 – May 2023**

- Conducted rigorous exploratory data analysis on a merged dataset comprising 1764 observations and 12 variables.
- Investigated the gender distribution, revealing that nearly 49.88% of patients were females.
- Calculated descriptive statistics for age, with a median age of 28 among COVID-19-positive patients. The mean and standard deviation for age among deceased patients were 28.39 and 15.92, respectively.
- Examined the geographic distribution, finding that 1.82% were from China, 0.45% from Italy, and 10.05% from the US.
- Explored comorbidities, highlighting the prevalence of Heart Disease (3.88%), HIV (7.54%), Liver Disease (1.94%), and Lupus (15.31%).
- Utilized a boxplot to visualize age distribution among COVID-19-positive and -negative patients, confirming the absence of outliers.

**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.

## 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.