RADHIKA AGARWAL

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# EDUCATION

**Indiana University, Bloomington, IN, United States Aug 2022-May 2024**

Master of Science in Data Science

*Relevant Coursework:* Advance Database Concepts, Statistics, EDA, Data Visualization

# Bharati Vidyapeeth College of Engineering, Pune, India Jul 2017-May 2021

Bachelor of Technology in Computer Science (Dept. Rank: 2) CGPA: 9.37/10

*Relevant Courses:* Database Management System, Object-Oriented Programming, Python

# TECHNICAL SKILLS

* *Programming Languages:* Python, R, C++
* *Data Analyst Skills:* Tableau, SQL, Descriptive/Inferential Statistics, PostgreSQL, Exploratory Data Analysis, Data Preprocessing Techniques, ggplot2, matplotlib, plotly
* *Tools:* Jupyter, RStudio, Excel, Git

**EXPERIENCE**

**O’Neill School of Public and Environmental Affairs, Bloomington, IN**

*Teaching Assistant* **Jan 2024-Present**

* Mentorship to more than 10+ students in SPEA-V 506 (Statistical Analysis for Effective Decision Making).
* Demonstrate practical applications of statistical analysis in R during instructional sessions, emphasizing real-world data analysis scenarios and address student inquiries related to data science projects and statistical techniques.

**Luddy School of Informatics, Computing, and Engineering, Bloomington, IN**

*Associate Instructor* **Aug 2023-Present**

* Mentor a cohort of over 120+ students in CSCI-B 561 (Advanced Database Concepts), emphasizing practical SQL skills.
* Lead assessment grading, collaborate on assessment preparation and address queries related to data-centric projects.

# O'Neill School of Public and Environmental Affairs, Bloomington, IN

*Faculty Assistance Data Science*  **May 2023-Aug 2023**

* Developed a visualization on Arts and Culture Impact on Neighborhood Choice using d3.js and Tableau, analyzing data from the US Census Bureau on American Housing Survey, 2015.
* Collaborated with professors on data-driven projects exploring the intersection of arts, culture, and urban development.

# Indiana University Event Services, Bloomington, IN

*Supervisor* **Aug 2022-Dec 2023**

* Orchestrated the execution of diverse university events, ranging from sports and presidential gatherings to entertainment events. Provided comprehensive assistance to attendees, addressing inquiries, and skillfully managing crowds to ensure a seamless event experience.
* Demonstrated effective leadership by leading a team of 10 students, fostering strong communication skills, and contributing to the overall success of each event.

# Tata Consultancy Services Pvt. Ltd, Delhi, India

*Software Engineer* **Aug 2021-July 2022**

* Contributed to the user interface team of the DigiGov platform in the public services domain.
* Applied Angular, JavaScript, and Bootstrap languages for effective software development.

# PROJECTS

**Comparing Spotify Playlists through Visualization Nov 2023-Dec 2023**

* Crafted an interactive dashboard with Plotly, featuring Cumulative Distribution Plots, Scatterplots, Radar Plots, Network Maps, and Treemaps to visually represent diverse aspects of playlist data, featuring 10 insightful visualizations.
* Leveraged the Spotipy API to seamlessly retrieve and integrate playlist data, enhancing the dashboard's functionality by comparing 2 playlists across 10 underlying metrics like energy, popularity, tempo, valence and more.
* Unearthed intricate musical connections and synergies within artist collaboration networks, extracting valuable insights that boosted playlist curation effectiveness by 40%

**Customer Segmentation Analysis Mar 2023-May 2023**

* Employed Principal Component Analysis and K-Means Clustering to segment customers into 3 categories of spenders.
* Investigated the impact of customer education and relationship status on spending behaviors, revealing correlations between these factors, and purchasing patterns.
* Proposed tailored marketing strategies for each segment based on data-driven insights to enhance customer satisfaction

**Regression Analysis of Socioeconomic Factors and Health Insurance Coverage Mar 2023-May 2023**

* Employed linear regression analysis to scrutinize the interplay between various socioeconomic factors and health insurance coverage in the United States using R.
* Executed meticulous data cleaning, addressing missing values, recoding variables, and log-transforming skewed attributes. Conducted insightful univariate and bivariate analyses to unveil correlations and trends within the dataset.