

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, Power BI, Exploratory Data Analytics, 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 diverse university events, ensuring seamless execution and attendee satisfaction, while leading a self-driven team of 10 students to contribute to overall event success. Demonstrated effective leadership by fostering strong communication skills and contributing to the 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%

Data-Driven Sales and Promotional Analysis: Unveiling Insights Across Four Product Categories

Sep 2023-Oct 2023

- Spearheaded an extensive data visualization initiative, spanning a three-year period, to examine sales and promotional strategies across four key product categories: mouthwash, pretzels, frozen pizza, and boxed cereal.
- Consolidated data from a diverse array of stores operating in Texas, Ohio, Kentucky, and Indiana, utilizing Tableau to synthesize insights from sales data and promotional activities thus improving overall business performance.
- Delivered strategic recommendations aimed at market expansion and pricing optimization, leveraging insights derived from the analysis to inform decision-making processes for retailers and manufacturers operating within highly competitive markets.

Customer Segmentation Analysis

Mar 2023-May 2023

- Orchestrated in-depth EDA and statistical analysis in R on a Kaggle customer personality dataset, honing in on spending habits and purchasing behavior.
- Executed K-means clustering in R to categorize customers into three discernible groups: Impulsive spenders, Loyal customers, and Surfers.
- Championed ETL tasks using SQL, orchestrating data extraction, transformation, and loading operations, alongside preprocessing actions like eliminating missing values and outliers. Additionally, commanded SQL for indispensable data querying and manipulation, pivotal for subsequent R analysis.