Riti Desai

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EDUCATION

University of California, Riverside   Riverside, CA
Bachelor of Science in Data Science   **2021-2025**

Relevant Coursework: Introduction to Artificial Intelligence, Data Structures and Algorithms, Software Engineering/Construction, Data Analysis Methods, Database Management Systems, Project in Computer Science, Regression Analysis

WORK EXPERIENCE

• **EDIFECS | Core Tech NLP Risk Adjustment Internship |** *Remote Intern, Bellevue, Washington*   **June 2024 - August 2024**
-Developed a Python and HTML based web application that iterates through tables in Excel sheets and generates visualizations for in-depth analysis post product release.
-Collaborated with the machine learning team to create a chatbot using Llama3, Ollama, ChromaDB, and Streamlit, enabling efficient query resolution for all products and services. Designed the architecture diagram and authored documentation for the chatbot.
-Enhanced natural language processing (NLP) annotators using SQL and Regex within the UIMA framework, ensuring precise identification and extraction of key information from system-generated encounter documents.

• **Data Science Research Fellowship | Measuring Medical Concept Relatedness |** *University of California, Riverside*   **June 2023 - August 2023**
-Employed Python's Selenium and BeautifulSoup packages to extract medical data from reputable public websites.
-Analyzed medical data from the UMLS database, establishing connections between related concepts.
-Integrated diverse medical information sources to enhance word coverage and improve model performance in measuring semantic relationships.
-Annotated and detected negation in raw medical data using brat annotation tool, facilitating the training of language models.

PROJECTS

• **FinWise - Personal Financial Dashboard | Data Management |** *UC Riverside, California*   **January 2025 - March 2025**
- Developed a financial dashboard to manage transactions, set budgets, and generate reports using React, Express, and MongoDB.
- Implemented user authentication, transaction management, and financial report generation (CSV export).
- Contributed to backend development by writing API routes, integrating MongoDB for secure data storage, and handling transaction and budget management logic.
  Technologies: React, Express, MongoDB, JUnit

• **Boxed Solutions - AI Container Management System | Software Engineer |** *UC Riverside, California*   **September 2024 - December 2024**
- Designed an AI system for cargo ships to optimize load/unload sequences and ship balance using the A* search algorithm.
- Developed web tools to visualize cargo movements and real-time manifest updates with HTML, CSS, and JavaScript.
- Implemented automated manifest generation and logging features for traceability and export-ready documentation.
  Technologies: A* Search Algorithm, HTML, CSS, JavaScript

• **COVID-19 Vaccination Drive | Data Management |** *Pune, India*   **May 2021 - June 2021**
-Analyzed/managed data of 500+ vaccinated patients using Python (pandas and matplotlib), MySQL, PyMySQL.
-Converted information to graphs and concluded the preferred vaccine in the neighborhood.

EXTRACURRICULAR EXPERIENCE

• **South Asian Federation Organization | Vice President, Representative |** *University of California, Riverside*   **September 2022 - June 2024**
-Assist the President in creating an agenda for each board meeting and directly oversee the roles and responsibilities of all board members.
-Spread awareness by marketing for different SAF events and executing a South Asian Banquet to create a sense of unity.

• **TEDxYouth@Baner | Event Organizing Committee |** *Pune, India*   **September 2020 - October 2020**
-Spread awareness by marketing for a TEDxYouth@Baner event as part of the outreach team.
-Used various platforms of social media to increase engagement for the virtual event.

TECHNICAL SKILLS

Languages: Python, SQL, C++, R, HTML, Javascript, CSS
Tools: Pandas, NumPy, Matplotlib, Tableau, Selenium, PyMySQL, Version Control (Git, GitHub), MySQL Workbench, Word2Vec, brat rapid annotation tool, BeautifulSoup, Doc2Vec, Regex, React, MongoDB, JUnit
Other: NLP, Data Manipulation and Analysis, Web Scraping, Architectural Design, Descriptive and Inferential Statistics, Problem Solving, Human-Centered Design, Efficiency, Microsoft Office, Atlassian Suite