

Riti Desai

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EDUCATION

University of California, Riverside

Bachelor of Science in Data Science

Riverside, CA

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