

# RITI DESAI

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## EDUCATION

**Bachelor of Science in Data Science,**  
*UNIVERSITY OF CALIFORNIA, RIVERSIDE*

2021 – 2025

Relevant Coursework: Data Structures and Algorithms; AI/ML; Databases; Python; C++; SQL; Software Engineering

## SKILLS

**Languages:** Python, SQL, C++, R, JavaScript, HTML, CSS

**Tools:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Tableau, BigQuery, React, MongoDB, Git/GitHub, Selenium, BeautifulSoup

**Core Skills:** AI Systems and LLM Applications, Machine Learning, NLP, Data Analysis & Visualization, Statistical Analysis, Web Scraping, A/B Testing, Software Architecture, Human-Centered Design

## CERTIFICATIONS

**NVIDIA Certified Associate Generative AI LLMs** — (In Progress)

**AWS Certified Cloud Practitioner** ☑ — Amazon Web Services (AWS), 2025

**Google Cloud BigQuery For Machine Learning** ☑ — Google, 2025

**Databricks Generative AI Fundamentals** ☑ — Databricks, 2025

## WORK EXPERIENCE

**FIVE10X, Technical Contractor - Product Development**

01/2024 – Present | Remote, CA

- Build ML models with Python, Scikit-learn, TensorFlow, and NLP to analyze behavior, sentiment, and campaign results.
- Design dashboards using Tableau, Matplotlib, and SQL to visualize reward impact, budget use, and feedback.
- Collaborate with engineers to deploy models, run A/B tests, and support data-driven decisions.

**UCR INFORMATION TECHNOLOGY SOLUTIONS, AI Intern**

06/2025 – 08/2025 | Riverside, CA

- Built a multi-agent Schedule Recommender with Google ADK, RAG, and BigQuery to create personalized student class schedules.
- Developed backend logic to query course data, apply prerequisite rules, and support major-specific scheduling agents.
- Designed a chat-style calendar interface in AI Studio to enhance academic planning and user experience for students.

**UCR COMPUTER SCIENCE DEPT., Data Science Research Assistant**

03/2025 – 07/2025 | Riverside, CA

- Supported research on detecting AI-generated code in CS1/CS3, contributing to a SIGCSE '26 publication.
- Collected and label 1,300+ student and AI-generated C++ submissions; assist with data preprocessing and model evaluation.
- Helped test ensemble classifiers ( $F1 = 99.5\%$ ) and validated robustness to noise in training data.

**EDIFICS, Data Science Intern**

06/2024 – 08/2024 | Bellevue, WA

- Developed a Python and HTML-based web app that reads Excel tables and creates visualizations for post-release product analysis.
- Collaborated with the ML 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.
- Refined NLP annotators using SQL and Regex in UIMA to accurately extract data from system-generated documents.

**PILABS, Data Science Intern**

06/2023 – 08/2023 | Riverside, CA

- Mined medical concepts from UMLS and other sources using Python, BeautifulSoup, and Selenium to improve semantic modeling.
- Annotated clinical text with the BRAT tool to train models identifying negations and related terms in unstructured medical data.
- Improved model coverage and performance by integrating diverse data sources for broader term matching and relationship scoring.

## PROJECTS

**FINWISE - Personal Financial Dashboard**

01/2025 – 03/2025

- Built a full-stack dashboard with React, Express, and MongoDB to manage budgets, transactions, and reports.
- Added authentication, backend APIs, and CSV export for user insights.

**BOXED SOLUTIONS - AI Container Management System**

09/2024 – 12/2024

- Designed an AI system using the A\* algorithm to optimize cargo loading and ship balance.
- Built web tools for real-time cargo visualization with HTML, CSS, and JavaScript.