RITI DESAI

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EDUCATION

Bachelor of Science in Data Science,   2021 – 2025
UNIVERSITY OF CALIFORNIA, RIVERSIDE
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, Ollama, Vertex AI, LangChain

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 ⧉ — 2025

Google Cloud: BigQuery for Machine Learning ⧉ — 2025

Databricks: Generative AI Fundamentals ⧉ — 2025

WORK EXPERIENCE

FIVE10x, *Technical Contractor - Product Development* ⧉   01/2024 – Present │ Remote, CA
- Built ML/NLP models to analyze 50,000+ customer interactions from movie industry marketing campaigns, identifying sentiment and behavioral drivers and boosting audience awareness from 20% to 45%.
- Designed and delivered dashboards adopted across 5+ industry verticals, improving insight turnaround time by 80%.
- Collaborated on deploying models that reduced manual reporting work by 3–4 hours/week per analyst.

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 across 10+ majors.
- 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
- Helped build and preprocess a 14K+ C++ code dataset including 9,248 student submissions and 2,980 AI-generated samples from Gemini 2.5 Pro and GPT-4o.
- Evaluated ML models (RF, XGBoost, SVM, MLP) and supported development of a Soft Voting Ensemble achieving F1 = 0.995 while remaining robust under 15% noisy data to detect AI-generated code.
- Contributed to dataset labeling, feature pipelines, and experiments for a SIGCSE 2026 publication.

EDIFECS, *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.
- Developed an internal LLM-powered chatbot using Llama 3, Ollama, and ChromaDB with a Streamlit UI, enabling engineers to query documentation and understand 11+ Edifecs products more efficiently.
- 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
- Contributed to an DS PATH (NSF-funded) medical NLP research project, scraping 100,000+ medical concepts from UMLS and public sources using Python, BeautifulSoup, and Selenium to support 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.