Sadia Fathima

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EDUCATION

University Of California, Davis **Expected Graduation – June 2027**
Bachelor's of Science in Data Science & Bachelor's of Arts in Design
Relevant Coursework: Data Structures, Applied Linear Algebra, Linear Regression, Databases, Machine Learning
Involvement: Girls Who Code Club, Data Science Club, Davis Design Interactive, HackDavis

SKILLS

Programming Languages & Data: Python, SQL, R, HTML/CSS, JavaScript
Libraries & Frameworks: TensorFlow, Sci-Kit Learn, Pandas, NumPy, PyTorch, React.js, Figma (UI/UX), Excel, Tableau
Courses/Certifications*:* LangChain for LLM Application Development, Advanced SQL (Kaggle), Data Cleaning (Kaggle)

EXPERIENCE

Davis Design Interactive, *Fellowship Lead* September 2025 – Present
- Designed and presented a research-backed environmentally conscious app, earning the programs **Best User Research Award** for research depth, user interviewing, and data-driven design decisions

Davis Girls Who Code, V*ice President* June 2025 **–** Present
- Lead career development initiatives for women and non-binary students; coordinating the first hackathon at UC Davis dedicated to marginalized gender identities (Article)
- Orchestrating large events like Women in Tech partnering with impactful industry speakers to strengthen community resilience

Apple*, Apple Support College Advisor* June 2025 – October 2025
- Delivered customer-facing IT support by resolving **50+** iOS technical issues per week, analyzing recurring problem patterns to improve troubleshooting workflows and reduce repeat service requests

IPMD Emotional AI, *Data Science Intern* February 2025 – June 2025
- Built a cross-platform mobile app for an UC Berkeley-based AI startup, integrating a facial emotion recognition model using React, HTML/CSS, JavaScript, Python, and Git
- Deployed conversational AI systems with LangChain, fine-tuning prompts with sentiment detection models to adapt large language model (LLM) outputs; boosted our model's accuracy from **90% to ~96%**

Cita Marketplace, *Data Science Intern* July 2024 – October 2024
- Conducted A/B testing and regression analysis on platform redesign affecting **22,000** monthly users, identifying UI changes that boosted user conversion rate by **13%**
- Built SQL queries and Python dashboards to track restaurant KPIs across multiple regions, providing executives with actionable visibility into performance trends, reducing reporting time by **20%**

Georgetown University, *Data Analyst* February 2023 – August 2023
- Cleaned and analyzed **2,000+** case statistics with **R**, visualizing wrongful conviction patterns; translated technical findings into accessible insights used by **100+** students and faculty
- Partnered with Dr. Amanda Lewis from Georgetown's Prisons and Justice Initiative to develop a podcast episode, integrating data-driven storytelling to raise awareness of systematic issues

Amazon Lab 126, *Project Intern* March 2022 – April 2022
- Produced demonstration of AI-powered security camera prototype, enabling our team of engineers to showcase their work to **25,000** professionals at NVIDIA's global artificial intelligence conference

PROJECTS

SmartTooth | Figma, Pandas, React, Typescript | Link
- Developed the interface for a smart health app using mock real-time pipelines to simulate sensor data
- Translated raw oral health data into clear visualizations such as progress tracking, trend charts, and personalized recommendations to improve health; awarded **1st place for public health design in UCD Design Course**

Leaf Library | Figma, **Excel | Link**
- Applied exploratory data analysis (EDA) to survey data from 65+ users to quantify user motivations, segment audiences, and identify key product drivers (price, sustainability, visuals)
- Designed a data-informed mobile app prototype for second-hand book trading; awarded **Best User Research Award**

Capture | Python, Pandas, Google Firebase
- Designed a mobile app that transforms photo libraries into personalized scrapbook-style memories; projected for presentation for **500+** UC Davis students and faculty at Plasma Demo Day 2026
- Analyzed 10,000+ images with deep learning models for personalized user experiences

Emotion Recognition & Risk Assessment | Python (MobileNetV2, Random Forest) | Link
- Designed a full emotion detection pipeline using deep learning (MobileNetV2) to classify emotions in children's drawings; evaluation via F1 scores, ROC AUC
- Programmed a risk assessment framework by engineering emotion-based features and training a Random Forest model to flag at-risk students