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SADIA FATHIMA

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https://github.com/sluggysadi
Portfolio: https://sadiafa.vercel.app

EDUCATION

University Of California, Davis **Expected Graduation – June 2027**
Bachelor's of Science in Data Science *Major GPA: 3.54/4.0*
Relevant Coursework: Data Structures, Applied Linear Algebra, Linear Regression, Databases, Machine Learning
Involvement: Girls Who Code Club Vice President, UCD Craft Center

SKILLS

Programming & Data: Python, R, SQL, HTML/CSS, Java, MySQL, React.js
Frameworks & Tools: TensorFlow, PyTorch, Figma (UI/UX), Excel, Tableau, PowerBI
Courses/Certifications*:* LangChain for LLM Application Development, Advanced SQL (Kaggle), Data Cleaning (Kaggle)

EXPERIENCE

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

IPMD Emotional AI — *Data Science & Frontend 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 redesign affecting **22,000** monthly users, identifying UI changes that boosted user conversion rate by **13%**
- Developed **SQL**-driven reports 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 — *Research* **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 — *Student 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

LEADERSHIP

DSCRIBE.AI — *Incoming Technical Lead* **September 2025**
- Leading development of a healthcare AI platform in collaboration with PwC & Expedia engineers, designing scalable tool that automates notetaking, tracks patient progress, and assists with diagnosis suggestions

Capture — *Founder* **July 2025 – Present**
- Founded and designed a mobile app that transforms photo libraries into personalized scrapbook-style memories; projected for adoption by **500+** UC Davis students at Demo Day 2026
- Analyzed 10,000+ images with deep learning models (**PyTorch, TensorFlow**) for highly personalized user experiences

PROJECTS

Emotion Recognition & Risk Assessment | Python (MobileNetV2, Random Forest)
- 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

Customer Retention Analysis | SQL, R, Power BI
- Analyzed **transaction histories and customer cohorts**, identifying retention drivers that informed targeted vendor incentives and forecasting strategies

Deep Learning for Low Bandwidth Environments | PyTorch, TensorFlow (SRGAN, ESRGAN, Transformers, Diffusion)
- Benchmarked SRGAN, ESRGAN, Transformer, and diffusion models for super-resolution in low-bandwidth settings, achieving **PSNR up to 27.0dB** and **SSIM 0.82**, with a lightweight hybrid model running in **<50ms/frame** on mobile NPUs