

# Mudit Arora

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## EDUCATION

<b>Master of Science, Artificial Intelligence</b> University of California, Santa Cruz	Expected Graduation: Dec 2025 Santa Cruz, CA GPA: 3.80
• Courses: Deep Learning for NLP, Data Science & Machine Learning, Intro to NLP, AI Agents	

<b>Bachelor of Science, Computer Science</b> Arizona State University	May 2024 Tempe, AZ GPA: 3.77
• Awards/Honors: Magna Cum Laude, Dean's List, New American University Scholar, SUN Award	

## SKILLS

<b>Programming Languages:</b> Python, R Programming, C++, MATLAB, Java, JavaScript, TypeScript, Swift, MySQL
<b>Frameworks/Libraries:</b> PyTorch, TensorFlow, scikit-learn, Keras, NLTK, Pandas, NumPy, LangChain, AutoGen, matplotlib, OpenCV, HTML/CSS, React, Next.js, Node.js
<b>Tools:</b> GCP, Azure, Git, Docker, AWS (S3), Postman, Ollama, Make.com
<b>Domain:</b> Artificial Intelligence, Machine Learning, Deep Learning, Data Science, NLP, LLM, RAG, GenAI, AI Agents, Computer Vision
<b>Certifications:</b> Technical Interview Prep (CodePath), Web Development (CodePath)

## WORK EXPERIENCE

<b>Deep Learning Researcher</b> Uniphore	May 2025 – Present Palo Alto, CA
• Advancing a flexible dialog capable of multi-turn reasoning and dynamic tool use by generating <b>5000+ synthetic conversations</b> and fine-tuning various LLMs with frameworks like ReAct, ReSpAct, and Pre-Act, targeting a <b>35% improvement in task success rates</b> for enterprise dialog systems.	
<b>AI Software Engineer Intern</b> CRED	May 2025 – Sept 2025 San Francisco, CA
• Worked on internal automation tools to help PMs in taking notes, reviewing transcripts, identifying key problems, solutions, and improvements <b>saving upto 2hrs</b> .	
• Designed an AI bug fixing agent for writing fixes, Q&A, and reviewing the bugs helping the developers <b>saving upto 4hrs</b> .	
• Crafted features for CRED's Chrome Extension utilizing LLMs for intelligent preprocessing and semantic chunking to scrape web page data , <b>achieving 84% accuracy</b> in the benchmark test, and optimized the process to retrieve real-time data to users efficiently.	
• Optimized CRED's AI Slack Bot for better workflow, <b>reducing the wait time by 15%</b> by using OCR models.	
<b>Graduate Teaching Assistant</b> Baskin School of Engineering, UC Santa Cruz	Apr 2025 – June 2025 Santa Cruz, CA
• Facilitated learning for <b>240+ undergrad students</b> in Computational Methods course under Prof. Daniel Fremont, boosting student comprehension by <b>20%</b> , through tailored office hours and interactive problem-solving sessions.	
<b>Machine Learning Researcher</b> Mayo Clinic	Aug 2023 – May 2024 Tempe, AZ
• Fine-tuned Google's T5-based LLM using <b>Python, PyTorch, and scikit-learn</b> , achieving <b>87% accuracy</b> in extracting social determinants of health from clinical notes and predicting patient readmission within 30 days.	
• Assisted hospitals in <b>reducing admission rates</b> , leading to <b>cost savings</b> in patient care management and improved clinical decisions.	
<b>Software Quality Assurance Intern</b> Knight Transportation	May 2022 – Aug 2022 Phoenix, AZ
• Innovatively constructed an agile approach, authoring detailed test cases and effectively resolving critical bugs via <b>Microsoft Azure DevOps</b> and <b>Elasticsearch</b> ; optimized development processes, resulting in a <b>28% reduction in bug resolution</b> time.	
• Orchestrated a collaborative effort with Backend Engineers to optimize User Experience, resulting in a <b>42% increase in app engagement</b> and a <b>23% decrease in user complaints</b> .	

## PROJECTS

<b>Slug Meditate – CruzHacks 2025 Winner</b>	
• Built a VR meditation web app pipeline, utilizing <b>Google's Gemini API</b> to transform user text prompts into AI generated image ( <b>Imagen 3</b> ) and video ( <b>Veo 2</b> ) that then transforms it into a 3D scene mapping ( <b>Gaussian Platting</b> ), then add an AI generated music ( <b>MusicFX</b> ) that complements the meditative vibe, and finally rendering the VR immersion ( <b>Niantic Studio by 8th Wall</b> ).	
• Achieved a <b>success rate of 87%</b> in rendering immersive by processing over <b>14 unique</b> user prompts.	
<b>Multi-Lingual Emotion Detection System – SemEval 2025</b>	
• Architected both <b>LSTM and BiLSTM models</b> using <b>PyTorch</b> for single and cross-language scenarios, achieving <b>F1 scores of 0.35 and 0.33</b> respectively by language-aware attention mechanism, <b>FastText embeddings</b> , and extensive data preprocessing techniques.	
<b>EduMUSE</b>	
• Developed an AI-powered tutoring system using <b>CrewAI</b> multi-agent architecture that transforms PDF study materials into personalized learning experiences with automated summaries, quiz generation, and podcast-style audio content using GPT-4o, SerperDev, and ElevenLabs, reducing study material <b>processing time by 68%</b> .	