

# Mudit Arora

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## EDUCATION

### Master of Science, Artificial Intelligence

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

### Bachelor of Science, Computer Science

Arizona State University

May 2024

Tempe, AZ

GPA: 3.77

- **Awards/Honors:** Magna Cum Laude, Dean's List, New American University Scholar, SUN Award
- **Courses:** Artificial Intelligence, Data Structures & Algorithms, Software Engineering, Computational Biology

## SKILLS

**Programming Languages:** Python, R Programming, C++, MATLAB, Java, JavaScript, TypeScript, Swift, MySQL

**Frameworks/Libraries:** PyTorch, TensorFlow, scikit-learn, Keras, NLTK, Pandas, NumPy, LangChain, AutoGen, matplotlib, OpenCV, HTML/CSS, React, Next.js, Node.js

**Tools:** GCP, Azure, Git, Docker, AWS (S3), Postman, Ollama, Make.com

**Domain:** Artificial Intelligence, Machine Learning, Deep Learning, Data Science, NLP, LLM, RAG, GenAI, AI Agents, Computer Vision

**Certifications:** Technical Interview Prep (CodePath), Web Development (CodePath)

## WORK EXPERIENCE

### Deep Learning Researcher

Uniphore

May 2025 – Present

Palo Alto, CA

- Advancing a flexible dialog capable of multi-turn reasoning and dynamic tool use by generating **5000+ synthetic conversations** and fine-tuning various LLMs with frameworks like ReAct, ReSpAct, and Pre-Act, targeting a **35% improvement in task success rates** for enterprise dialog systems.

### AI Software Engineer Intern

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 **saving upto 2hrs.**
- Designed an AI bug fixing agent for writing fixes, Q&A, and reviewing the bugs helping the developers **saving upto 4hrs.**
- Crafted features for CRED's Chrome Extension utilizing LLMs for intelligent preprocessing and semantic chunking to scrape webpage data , **achieving 84% accuracy** 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, **reducing the wait time by 15%** by using OCR models.

### Graduate Teaching Assistant

Baskin School of Engineering, UC Santa Cruz

Apr 2025 – June 2025

Santa Cruz, CA

- Facilitated learning for **240+ undergrad students** in Computational Methods course under Prof. Daniel Fremont, boosting student comprehension by **20%**, through tailored office hours and interactive problem-solving sessions.

### Machine Learning Researcher

Mayo Clinic

Aug 2023 – May 2024

Tempe, AZ

- Fine-tuned **Google's T5**-based LLM using **Python, PyTorch**, and **scikit-learn**, achieving **87% accuracy** in extracting social determinants of health from clinical notes and predicting patient readmission within 30 days.
- Assisted hospitals in **reducing admission rates**, leading to **cost savings** in patient care management and improved clinical decisions.

### Software Quality Assurance Intern

Knight Transportation

May 2022 – Aug 2022

Phoenix, AZ

- Innovatively constructed an agile approach, authoring detailed test cases and effectively resolving critical bugs via **Microsoft Azure DevOps** and **Elasticsearch**; optimized development processes, resulting in a **28% reduction in bug resolution** time.
- Orchestrated a collaborative effort with Backend Engineers to optimize User Experience, resulting in a **42% increase in app engagement** and a **23% decrease in user complaints**.

## PROJECTS

### Slug Meditate – CruzHacks 2025 Winner

- Built a VR meditation web app pipeline, utilizing **Google's Gemini API** to transform user text prompts into AI generated image (**Imagen 3**) and video (**Veo 2**) that then transforms it into a 3D scene mapping (**Gaussian Platting**), then add an AI generated music (**MusicFX**) that compliments the meditative vibe, and finally rendering the VR immersion (**Niantic Studio by 8th Wall**).
- Achieved a **success rate of 87%** in rendering immersive by processing over **14 unique** user prompts.

### Multi-Lingual Emotion Detection System – SemEval 2025

- Architected both **LSTM** and **BiLSTM** models using **PyTorch** for single and cross-language scenarios, achieving **F1 scores of 0.35 and 0.33** respectively by language-aware attention mechanism, **FastText embeddings**, and extensive data preprocessing techniques.

### EduMUSE

- Developed an AI-powered tutoring system using **CrewAI** 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 **processing time by 68%**.