Aditi Singh

singhaditi@live.com | +1(720)206-8865 | [LinkedIn](#) | US Citizen

EDUCATION

University of Colorado at Boulder
Master's in Computer Science with an AI Graduate Certificate **Class of 2027**

University of California at Berkeley
Bachelor's in Data Science (Major) and Minor in Computer Science **Class of 2025**

TECHNICAL SKILLS

- **Software Tools** - Git, IntelliJ/Visual Code, Cursor/Copilot, Jupyter Notebook, Google Colab, Agile/Jira/Confluence, Draw.io, Docker,
- **Computer Languages & Frameworks** - Java/JUnit, HTML/CSS/JavaScript/React, C++/ASM, Node.js, OOD/TDD, Django/Pandas, Python/NumPy/Matplotlib/Scikit-Learn/Statistics/PyTorch, Shell Scripting, SQL/MySQL/SQLite, PostgreSQL/Supabase, Tableau, NLP/NER/POS-Tagging/Annotation/PromptEngineering, LLM/GenAI/RAG, LangChain, CVN/CNNs, HuggingFace, GCP/OCI
- **Operating Systems** - LINUX, macOS, Microsoft Windows

EXPERIENCE

Software Engineering Intern - Ozcorp Scientific *Present*
- Designed and developed a meta-agent platform and implemented agents handling recruitment, research, and CRM workflows using Python, Next.js, Postgres, and LangChain.
- Identified improvement areas, proposed and documented architectural enhancements (agent structure, service integrations).
- Implemented and delivered end-to-end features, including Google Calendar scheduling with FastAPI Calendar Service, Twilio SMS integration, resume parsing, and database migrations.
- Owned DevOps for the recruiting agent improvement pipeline, managed GitHub merge requests, and drove unit and integration testing.

Software Engineer - Mercor *Present*
- Responsible for LLM SFT for coding and debugging assistance. Sourced and analyzed technical coding documentation to ensure accuracy and domain alignment; designed complex, high-quality prompts and drafted golden reference responses for model training, evaluation, and performance improvement.
- Reviewed peer-generated golden responses against a structured rubric to ensure technical correctness, clarity, and completeness; tracked, documented, and managed feedback to drive continuous quality improvement and consistency across datasets.

Data Science Student Researcher - UC Berkeley, CITRIS and the Banatao Institute *Sep 2024 - Aug 2025*
- Designed a complete system with a RAG solution for an LLM Chatbot and a Forum to assist administrative professionals. Implemented the Front-end with React/Radix UI, LLM/RAG backend with Python/LangChain, and Chat data model with Postgres/Supabase.
- Developed hypotheses and analyzed three datasets to support research on leveraging LLMs for early detection of ADHD. Designed and evaluated classifiers to uncover data patterns and drive actionable research insights.

Software Engineering Intern at Modivcare, Denver, CO *June 2023 - Aug 2023*
- Developed a web-based trip simulator that modeled a patient's journey, from appointment booking to drop-off, using Django/Python and MySQL data model. This simulator became a crucial tool for developers to test code changes thoroughly before production deployment.
- Co-led a group internship HR Compliance project to develop an AI-driven approach for HR complaint handling. As tech lead, I created a pseudo-model with mock HR complaints and multi-shot prompts in ChatGPT, demonstrating how Gen AI could streamline compliance.

PROJECTS

Natural Language Processing (*Annotation project*)
- Developed an annotated dataset for multi-class book audience ratings by collecting 500 passages and reviews from Project Gutenberg and LibriVox. Conducted manual annotations, reconciled discrepancies, and adjudicated through group discussions. Produced a comprehensive annotation guideline and created a classifier to test the accuracy of our dataset.

Machine Learning (*ML Algorithms*)
- Developed three ML models to estimate angiographic coronary disease probabilities using patient attributes from global clinical and noninvasive angiography test data. Evaluated model metrics to identify at-risk patients.
- Developed multiple convolution neural network models with CNN layers, max pooling, and fully connected layers to address the multiclass image classification problem using the CIFAR-10 dataset.

Data Structures (*Ngram Viewer backend*)
- Implemented a Java backend for a browser-based data analysis tool for exploring the history of word usage and hyper(hypo)nyms in English texts over 100 years using Google NGram & WordNet dataset.

Data Science (*Email Ham or Spam Classifier & Movie Classification*)
- Developed a Logistic Regression classifier for spam/non-spam emails and a k-nearest-neighbors classifier to predict whether a movie is a comedy or a thriller.

AWARDS & CERTIFICATIONS

- ***Rapid Application Development with Large Language Models (LLMs)*** *Aug 2025*
  NVIDIA
- ***Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate*** *June 2025*
  Oracle
- ***CDSS Award of Excellence for Large Language Modeling Innovation*** *May 2025*
  UC Berkeley College of Computing, Data Science, and Society

RELEVANT COURSES

1. **Web Design Decal**
2. **Data Structures**
3. **Principles and Techniques of Data Science**
4. *Linear Algebra & Differential Equations*
5. *Discrete Mathematics*
6. **Probability for Data Science**
7. *Foundations of Data Science*
8. *Structure & Interpretation of Computer Programs*
9. **Data Engineering**
10. **Computational Models of Cognition**
11. *Assembly Language, Programming/Computer Organization*
12. **Linux SysAdmin Decal**
13. **Intro to Statistics**
14. **Intro to Artificial Intelligence**
15. **Natural Language Processing**
16. **Intro to Machine Learning & Data Analytics**
17. **Machine Learning II**
18. **Efficient Algorithms and Intractable Problems**