

# Sarah Chen

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## PROFESSIONAL SUMMARY

Recent Computer Science graduate with a focus on machine learning and natural language processing. Completed multiple AI projects during academic career, including a capstone project on sentiment analysis. Passionate about building intelligent systems and eager to apply theoretical knowledge to real-world applications.

## EXPERIENCE

### AI Research Intern

*TechStartup Labs | June 2023 - August 2023*

- Developed a chatbot prototype using OpenAI API and LangChain for customer service automation
- Implemented data preprocessing pipelines for training datasets with 100K+ records
- Collaborated with senior engineers to fine-tune BERT models for classification tasks
- Documented API integrations and created user guides for non-technical stakeholders

### Machine Learning Teaching Assistant

*UC Berkeley | January 2023 - May 2024*

- Assisted 150+ students with Python programming, scikit-learn, and TensorFlow implementations
- Graded assignments and provided feedback on ML model implementations and performance
- Held weekly office hours to help students debug code and understand complex algorithms

## EDUCATION

**Bachelor of Science in Computer Science** - University of California, Berkeley

GPA: 3.7/4.0 | Graduated: May 2024 | Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Data Structures, Algorithms

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, SQL, JavaScript

**ML/AI Frameworks:** TensorFlow, PyTorch, scikit-learn, LangChain, OpenAI API

**Tools & Technologies:** Git, Docker, Jupyter Notebooks, Pandas, NumPy, Matplotlib

**Concepts:** Machine Learning, NLP, Deep Learning, Prompt Engineering, RAG, Vector Databases

## PROJECTS

### Sentiment Analysis System (Capstone Project)

Built an end-to-end sentiment analysis system for product reviews using BERT transformers. Achieved 89% accuracy on test dataset. Deployed as a Flask API with real-time prediction capabilities.

### Personal AI Assistant

Created a voice-activated AI assistant using OpenAI Whisper for speech recognition and GPT-4 for natural language understanding. Integrated with calendar and email APIs for task automation.