KUSH BHARDWAJ

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Education

University Of Illinois Urbana Champaign - GPA: 3.90 **August 2024 - May 2027**
B.S. in Computer Science + Linguistics
Double Major in Brain and Cognitive Science, minor in Data Science

Mission San Jose High School - GPA: 4.14 *Class of 2024*

Relevant Coursework

- CS 225 - Data Structures
- CS 340 - Computer Systems
- MATH 257 - LinAlg w/ Computational Applications
- LING 307 - Semantics and Pragmatics
- LING 301 - Syntax
- MATH 231 - Calculus II

Work Experience

UC Berkeley Artificial Intelligence Research Lab - Research Intern **June 2023 – Present**

- Engaged in a groundbreaking research initiative at UC Berkeley's AI Lab (BAIR), focused on leveraging machine learning to translate underrepresented Asian languages into English, with guidance from Professor Keutzer
- Specialized in end-to-end data pipeline management, including extraction, cleaning, and annotation of tens of thousands of multilingual datasets to train high-accuracy large language models (LLMs)

University of Illinois Speech Accessibility Project - Undergraduate Research Assistant **September 2025 – Present**

- Host the Speech Accessibility Project Challenge, including data preprocessing pipeline, remote evaluation setups, and metric development

University of Illinois Deseret Consortium - Research Intern **January 2025 – Present**

- Developed hundreds of Unicode-compliant texts of Deseret materials, ensuring precision and consistency across linguistic datasets, making me one of the worlds forefront Deseret transliteration experts
- Contributed to the design of Optical Character Recognition tools, enhancing accessibility and research capabilities for the Deseret Alphabet while collaborating with faculty to align with project objectives

Klatch - Full-stack Developer **April 2025 – Present**

- Collaborated with independent developers to debug, refine, and improve functionality for an early-stage social platform
- Addressed user-reported issues, optimized performance, worked with Firebase API, and contributed interface suggestions across multiple app iterations

Projects

AI-Powered Content Creation and Social Media Automation **August 2024 - Present**

- Created an AI-driven pipeline to scrape large social media datasets, fine-tune a custom language model, integrate with self-automated video creation, and publish highly engaging multimedia content

Award-Winning AI-Driven Crop Yield Forecasting Tool **July 2024**

- Won the "AI for Change" Hackathon 2024 for innovative approach in improving agricultural planning and resource management through predictive analytics
- Engineered an AI tool that predicts soybean harvest efficiency by incorporating real-time weather data, achieving a 95% prediction accuracy rate, using Python and Anvil

iOS App Development (www.stressbust.in) | *iOS, Swift, XCode* **Summer 2020 - Present**

- Developed and released a series of apps designed around mental health, garnering over 3000 downloads across the globe.
- Monetization causes a passive of income of $100 per year.

Technical Skills

Languages: Comprehensive knowledge of C++, Python, Swift, & Java
Developer Tools: XCode, VSCode, GitHub, Google AI Studio

Leadership

SigNLL Lead: Lead workshops and projects related to LLM creation, fine-tuning, and NLP topics
Tour Guide: Led dynamic campus tours and managed admissions inquiries for prospective and admitted students

Activities

Association for Computing Machinery @ UIUC - Executive Member **2024 - Present**

- Member of Mobile Development, Natural Language Processing, and AI/DS branches

NeurotechX @ UIUC - CortexCodec Member **2025 - Present**

- Designed and implemented an AI model predicting mood from EEG data within a research setting