

# KAYSHAV BHARDWAJ

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## Education

### Purdue University

*Bachelor of Science in Artificial Intelligence*

**Expected Graduation - December 2027**

*West Lafayette, Indiana*

### Mission San Jose High School

**Class of 2024**

*Fremont, California*

## Relevant Coursework

- CS 243 - Artificial Intelligence Basics
- CS 176 - Data Engineering In Python
- STAT 511 - Statistical Methods
- PHIL 256 - Philosophy And Artificial Intelligence
- CS 182 - Foundations of CS (Discrete Math)
- CS 193 - Tools (Git/Command Line)

## Experience

### Berkeley AI Research (BAIR) Lab - *Student Researcher*

**June 2023 – Present**

- Research project with a team of UC Berkeley AI Research Lab (BAIR) Researchers Under Prof. Kurt Keutzer Using Machine Learning to Translate Underserved Asian Languages to English Text.
- Developing and curating a comprehensive dataset of Sanskrit OCR text pairs by collecting, cleaning, and aligning OCR outputs with corresponding text, enabling the development of future OCR models.
- Led the textual data collection, cleaning, and annotation of millions of multilingual texts.

### Purdue AI For Musicians Lab Co-Lead - *Research Fellow*

**August 2024 - Present**

- AI+Music Research with Prof. Yung Hsiang-Lu in the AIM Lab to develop Automatic Music Transcription Technology.
- Co-Leading Team of 12 to Prepare a Competition and Paper Regarding Polyphonic AMT.
- Assessing state of the art and gauging AMT's strengths, weaknesses, and feasibility.
- Developed a scoring algorithm to quantify transcription quality.

### University of the Arts, London - *Student Researcher*

**September 2025 - Present**

- AI+Music Research with Prof. Bryan-Kinns involving responsible AI music generation.
- Music and Responsible AI (MusicRAI) research project to reduce bias in AI music generation and analysis
- Engineered and trained Music GenAI models, optimizing them for public use and packaging them for distribution.

### Governance and Responsible AI Lab (GRAIL) - *Research Assistant*

**March 2025 - Present**

- Responsible AI Research under Professor Schiff in the Purdue GRAIL Lab.
- Contributing to the creation of high quality datasets of scholarly knowledge about AI's workforce impact.
- Project contributes to a larger research initiative making AI workforce research more accessible and policy-relevant.

### The Data Mine of the Rockies - *Undergraduate Researcher*

**August 2025 – Present**

- Collaborated with the National Space Intelligence Center (NSIC) on GPS signal anomaly detection.
- Algorithm refinement and performance upgrades and identifying storage strategies and efficiencies for large datasets.

## Projects

### Klatch Social | *Swift, iOS Development, Firebase*

**April 2025 - Present**

- Building Klatch iOS Social Media App.

### Purdue Autonomous Robotics Club

**August 2024 - Present**

- Helped Build AI Algorithm to Scan Sheet Music to Convert to MusicXML Format for Input into a Robotic Piano Hand.

## Technical Skills

**Languages:** Knowledge of Python, Java, Swift, SQL, & R

**Developer Tools:** Various AI Tools and APIs, Google Colab, GitHub, Google Suite, Microsoft Office

**Other Skills:** Leadership, Communication, Teamwork, Initiative

## Awards and Accomplishments

- Paper Accepted to NeurIPS AI For Music Workshop
- Dean's List and Semester Honors (Fall 2024, Spring 2024)
- Hello World Hackathon Organizer (2025)
- AI for Change Hackathon Winner (2024)
- California Golden State Seal Merit Diploma (2024)
- California State Seal of Biliteracy (2024)