Mukund Shankar

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About Me

- Freshman student at Evergreen Valley High School
- Curious and inquisitive learner
- Enjoy being outdoors (Hiking, Walking etc.)
- Play guitar and piano and run a personal Youtube channel

My AI Mission & Passions

AI for Health (People & Plants)

The Focus: Using AI to spot "red flags" in health scans or data before a problem becomes a crisis.

The Goal: I want to help catch illnesses—even the rarest ones—at the very beginning. I'm also interested in applying this to agriculture, using AI to identify plant diseases early so we can protect our food supply and help farmers save their crops.

Protecting the Environment

The Focus: Using AI to track pollution and understand complex climate patterns.

The Goal: I want to build tools that help us see exactly where pollution is coming from and how we can stop it. The goal is to use data to make our cities cleaner and find smarter ways to fight climate change.

Making Music Education Fair

The Focus: Creating AI-powered apps or tools that teach kids how to play instruments (like the guitar!).

The Goal: As a musician, I know how much private lessons cost. I want to use AI to provide high-quality music coaching to kids who can't afford it, making sure that every child has the chance to be creative, regardless of their family's income.

Field of Experience and Recognition

- Learning Python programming for about a year
- Ranked in the Top 25% in Math Olympiad (Grades 5–7)
- Science Olympiad – *Rickards Invitational* (US wide tournament)
  - Reach for the Stars: *1st Place*
  - Wind Power: *5th Place*
- Honor Roll throughout middle school for academic excellence
- Golden Honor Roll in 6th grade (straight A's)
- Trophy winner in Bay Area Chess Tournaments (5th grade)
- Kumon Silver Award (3rd grade)
- Guitarist for the esteemed - San Jose Youth Symphony (SJYS) band
- Learning music/piano for about 10 years
- Took part in Lego Robotics Summer Camp

Familiar Libraries and Packages

- Language: Python 3
- Frontend Framework: Streamlit - Python web framework for data applications
- AI/LLM Integration: OpenAI API - GPT-4.1-mini
- Image Processing: Pillow (PIL) - Python Imaging Library for image handling and thumbnails
- Environment Management: python-dotenv - Environment variable management
- Data Storage: JSON-based logging system for persistent data

Github Projects

- [Plant Care AI Project](#)
- [Python Projects](#)