

Atharva Berde

408-420-3737 | atharvaberde5@gmail.com | <https://atharvaberde2.github.io> | github.com/atharvaberde2

EDUCATION

San Jose State University

Bachelor of Science in Applied and Computational Mathematics, Minor in Computer Science

San Jose, CA

Dec. 2026

EXPERIENCE

Machine Learning Intern

June 2025 – August 2025

Responsible Computing Club at SJSU

San Jose, CA

- Consolidated fragmented EPA pesticide data from 20 counties into unified MongoDB database for compliance application, improving data accessibility by 40 %.
- Integrated BLT database with location-based systems using API connections for real-time pesticide regulation lookup, achieving 35% faster compliance checking.
- Developed multi-agent AI with CrewAI to automate EPA compliance, extracting pesticide rules and generating reports for agricultural professionals, reducing compliance research time by 75%.

PROJECTS

GitHub Talent Whisper | *GitHub REST/GraphQL APIs, OpenAI API, NLTK*

August 2025

- Selected as top 15 finalist out of 300+ teams in Hack-Nation's Global AI Hackathon, building an AI-powered developer talent analysis platform using Flask, OpenAI GPT-3.5, and advanced ML pipelines.
- Engineered 4-tier ML pipeline integrating GitHub GraphQL API, OpenAI GPT-3.5-turbo, and scikit-learn accomplishing 89.1% accuracy in developer success prediction with real-time analysis.
- Developed breakthrough talent indicators using NLTK, TextStat, and custom psychological profiling algorithms, achieving 82.3% accuracy in salary trajectory forecasting across 23,491+ developer profiles.
- Built scalable Flask backend with Tailwind CSS frontend, implementing GraphQL data extraction, rate limiting optimization, and real-time progress indicators for 10 second analysis performance.

PathFinder | *Anthropic Claude API, Pandas, JavaScript, Pytrends*

May 2025

- Built AI career platform using Flask and Claude 3 Haiku API, generating 25+ personalized questions per topic across 10+ career domains.
- Developed authentication system with Flask-Login, bcrypt, and SQLite database, implementing secure user profiles and assessment history with password hashing.
- Created recommendation engine using Google Trends API and conversation memory algorithms, delivering contextual career advice through real-time trend integration.
- Designed responsive interface with Tailwind CSS and glassmorphism effects, achieving sub-3 second load times with seamless cross-device compatibility.

Dyslearn | *ElevenLabs, Gemini API, Vectara*

April 2025

- Developed AI-powered reading coach and assistant to enhance engagement for dyslexic children with integrated practice and Q&A.
- Collaborated on integrating Vectara's RAG API to retrieve contextually relevant educational materials in real-time with 99% verified precision.
- Embedded Eleven Labs speech synthesis to deliver personalized, spoken feedback, increasing accessibility and learner engagement for students with reading challenges.
- Won Best Use Vectara at HackDavis 2025, awarded at a highly competitive university hackathon consisting of 700+ participants.

TECHNICAL SKILLS

Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Big Data Technologies: Spark, Hadoop, Hive

Cloud Platforms: Google Cloud Platform (GCP), AWS, Azure

Developer Tools: Git, Docker, TravisCI, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib, Tensorflow, Seaborn, Pytorch