

# Pallavi Shankar

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Availability: June – December 2025

## EDUCATION

### Northeastern University

Khoury College of Computer and Information Science

*Candidate for a Bachelor of Science in Computer Science and Cognitive Psychology*

**Relevant Courses:** Object Oriented Design, Database Design, Fundamentals Computer Science, Discrete Math, Foundations of Data Science

**Activities:** Women in Tech, NURobotics, Artificial Intelligence Club, Study Abroad at American College of Thessaloniki

Boston, MA

Expected Graduation May 2027

**GPA 3.95/4.0** | Dean's List

## TECHNICAL KNOWLEDGE

**Programming Languages:** Java, Python, SQL, HTML, CSS, JavaScript, Racket

**Applications:** IntelliJ IDEA, VS-Code, Eclipse, Jupyter Notebook, Docker, Git, SPSS Statistics, Datagrip, Figma

**Frameworks and Libraries:** Streamlit, Flask, NumPy, Pandas, Matplotlib, Seaborn

## PROJECTS

**PokerPolygons Game** | Java, *Code available by request*

Jan 2025 – Feb 2025

- Designed strategy game, PokerPolygons, using Model-View-Controller architecture to enforce polymorphism and encapsulation
- Implemented game variants through abstraction, reducing code duplication by 80% and streamlining future extensions
- Optimized poker hand evaluation algorithms (straights, flushes, etc.) with custom scoring rules to improve computational efficiency
- Conducted JUnit testing and debugging, ensuring 100% game validity, backward compatibility, and seamless feature expansion

**Personal Website** | HTML, CSS, Javascript

Dec 2024 - Present

- Currently developing personal portfolio website showcasing projects, skills, professional experiences, and efficient contact form
- Developing interactive project gallery with hover effect and filtering allowing users to explore detailed explanations of each project
- Integrated Web3Forms API to automate form submission processing ensuring efficient communication experience for the user

**Co-Connect** | Python, SQL, Flask, Streamlit, APIs

Nov 2024 - Dec 2024

- Collaborated with team of 6 to develop data-driven web platform to enhance co-op search for students, employers and advisors
- Utilized SQL for data management, Python Flask for backend API, and Streamlit for front-end interface to support engagement
- Tested RESTful API with 8 endpoints to facilitate data flow between front-end and back-end
- Increased user engagement by 30% in testing phase with dynamic feed customizations, discussion boards, and personalized profiles

**PurePitch Sports**

Oct 2024

- Collaborated with a team of 10+ individuals over two-week period to create a start-up that solved an environmental issue
- Managed the organization of meeting schedules to distribute work responsibilities, optimize collaboration and reach project objectives
- Created business plan and 60-minute presentation to 30+ judges including business structure, financials, marketing, supply chain, etc.
- Conducted in depth market research to build out targetable market size using TAM-SAM-SOM framework and analyzed supply chain through research on sustainable practices to ensure all materials and business operations were compliant with mission statement

## EXPERIENCE

**AI Perception Lab**

Boston, MA

*Lab Technician*

Feb 2025 - Present

- Analyzing 10+ papers on causal inference in computer vision models to build foundation for upcoming experimental research

**Almare Gelato**

Pleasanton, CA

*Seasonal Store Associate*

Sep 2022 – Sep 2024

- Fostered welcoming environment to 100+ customers by engaging and providing tailored recommendations resulting in repeat visits
- Collaborated with managers to streamline inventory management and maintain cleanliness ensuring high standard of service

**Amador Valley DECA**

Pleasanton, CA

*Co-President*

May 2022 – May 2023

- Guided 80+ member chapter in preparation for yearly business competitions leading to international recognition and awards
- Managed \$20,000 budget for regional, state, and international conferences, optimizing resource allocation to execute forecasted events
- Organized fundraisers and mock competitions with local schools to foster strong community and improve competitive performance

**Polygence**

Remote

*Researcher*

May 2022 – Sep 2022

- Led comprehensive literature review of 15+ papers to identify key trends on Westernization's impact on eating disorders in Fijian women
- Collaborated with mentor to refine methodologies enhancing study's quality and produced more actionable and relevant findings

**YAPA Kids**

Remote

*Science Program Lead + Teacher*

Feb 2022 – Feb 2023

- Administered 20+ classes to resolve student waitlist challenges to optimize student participation and ensure efficient class operations
- Adapted teaching strategies and lessons to meet diverse student learning styles leading to 90% positive feedback on student engagement