Meerav Shah

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EDUCATION

The Pennsylvania State University   University Park, PA
College of Engineering | Bachelor of Science in **Computer Science**   Graduation: May, 2026
Eberly College of Science | Minor in **Astrophysics**   *Dean's List: 2 Semesters*

WORK EXPERIENCE

Rolai   **Penn State University, PA**
AI Engineering & Applied Research Intern   *August 2025 - Present*
- Collaborating with product and research teams & contributing to platform feature development and academic outputs.
- Leading a human-centered research study to evaluate the effectiveness of the academic advising chatbot and measure its impact in improving advising outcomes in real-world higher education contexts for >50 students.

AI Engineering Intern   *June 2025 - August 2025*
- Deployed an academic advising chatbot on the Rolai platform, integrating live web-scraping to dynamically update its knowledge base with relevant web sources, reducing manual content maintenance by ~50%.
- Co-authored 3 white papers on AI in education and worked with applied research to design a human-centered research study on impact of agentic workflows in academic advising (publication pending).

Academic Advising Chatbot, Penn State   **Penn State University, PA**
Undergraduate Researcher, Primary Investigator   *June 2024 - Present*
- Developed an academic advising chatbot using commercial LLMs and APIs for the College of IST to assist students with course selections and academic queries, reducing student advising load by 35% with 74% more details.
- Published a research paper for ACM SiGCSE(2025) on the development, implementation, and impact of the academic advising chatbot, its influence on students and its relevance in the current academic landscape.

Autonomous UAV Research Project - MCREU   **Penn State University, PA**
Undergraduate Researcher, Primary Investigator   *June 2024 - August 2024*
- Conducted research on the impact of cloud and icing conditions on UAV performance using torque & RPM data: +/- 25%.
- Developed a methodology to monitor UAV propeller performance using onboard computers, and data analysis.
- Proposed future research directions focusing on real-time data processing algorithms to mitigate icing effects on drones.

IST 130 - Intro to AI and ART   **Penn State University, PA**
Lead Learning Assistant, IST 130   *January 2024- Present*
- Leading a team of 14 Learning assistants, managing grading, correspondence, and class operations for >1100 students
- Trained and mentored 20 LAs, designed coursework and created documentation for future semesters and possible handover.

Autonomous Vehicle Research Project - HTI Lab   **Penn State University, PA**
Undergraduate Researcher   *September 2023 - May 2024*
- Assisted in conducting a driving simulator experiment to investigate how drivers behave when they interact with Autonomous and Human-driven vehicles on the road with varying amounts of market penetration - 25%, 50%, 75% & 100%.

PROJECTS & CLUB EXPERIENCE

Perplexity   **Penn State University, PA**
Campus Strategist - Penn State   *January 2024- Present*
- Led 'Race to Infinity' campaign driving 774 total sign-ups (157 direct) with a 58% increase in sign-ups in the closing stages.

NASA Big Idea Challenge 2024 [SSPL]   **Penn State University, PA**
Team Lead; Researcher   *October 2023 - February 2024*
- Led a team of 15 individuals in the annual Big Idea challenge, under faculty guidance, working towards the development of a groundbreaking inflatable technology project to 3d print on the moon using lunar regolith & proprietary NASA systems.

Student Space Programs Laboratory - [SSPL] Member   *September 2023- Present*
- Programmed the payload using standard Arduino IDE based on C# to collect 6 real-time datapoints and visualize it.

SKILLS & INTERESTS

Skills: Programming languages (Python, Java, C, C++, C#, HTML/CSS, SQL), MS Office, Cloud Computing, GPU, MySQL, Data science, Linux, Unix, database management, PyTorch, product design, backend, end-to-end, cross functional, customer needs, market analysis, critical thinking, agility, problem-solving, Customer Service, GitHub, Version Control, JavaScript, NoSQL, Excel, NumPy. Soft skills(effective communication skills, attention to detail, decision-making, team player, growth mindset,), Product features.
Interests: Project management, Space Systems Engineering, Artificial Intelligence, Machine Learning, Computer Vision, Deep Learning, product management, DevOps, front-end, full-stack, IoT, API, Statistics, Source Code, computer vision, open source.