TANVI DHAWADE

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EDUCATION

Purdue University, West Lafayette, IN **Expected Graduation: May 2026**
BS, Computer Engineering **GPA: 3.61/4.00**

- Dean's List & Semester Honors (Fall 2022, Spring 2023, Fall 2023)
- Intended Certificate/Minors: Applications in Data Science, Mathematics, English

RESEARCH & INTERNSHIPS

Undergraduate Research Assistant- SERIS Lab: Computer Vision for Embedded Systems **Jan. 2024-Aug. 2024**

Generative AI Software (RAIS) Team

- Identified various generative AI tools and libraries in Python to create 3-D images and analyzed them for quality and efficiency
- Performed comparative analysis of various methods and obtained data to support results related to realism and originality

Reproducible AI Software (RAIS) Team

- Used Python, GPT-4o integrated with LLMs to evaluate and improve reproducibility and reliability of AI software results
- Utilized data scraping techniques to begin automating analysis of reproducibility of code repositories and papers

Software Engineering Fellow- Headstarter AI **Jul. 2024-Sept. 2024**

- Built 5+ AI apps and APIs using NextJs, OpenAI, React, StripeAI, with the goal of 1000 registered users
- Developed projects from design to deployment, leading 3 other engineering fellows
- Coached by Amazon, Bloomberg, and Capital One Engineers on Agile, CI/CD, Git and microservice patterns

· Python programming tutor

ISF DUIRI Fellowship- Purdue University, West Lafayette **Jan. 2024-May 2024**

Undergraduate Research Assistant

- Investigated geospatial-temporal dynamics of hearing-impaired population to inform sustainable urban development using Python and US Census Data
- Conducted longitudinal and spatial clustering analysis of data at the individual-level for 10+ years and 3000+ counties

Intern @ Cloudcraftz Solutions- Kolkata, India **June 2023- July 2023**

- Utilized Python, Bash for multiple natural language processing techniques to engineer contextually relevant and personalized prompts, increasing answer accuracy, and reduced occurrence of AI hallucinations, in GPT-based model, by ~10%

PROJECTS

Spotify-based Multilingual Music Platform **Apr. 2024-May 2024**

- Developed a multilingual music platform integrating recommendation system, real-time lyrics translation, and language-aware playlist generation using Spotify Web API, Spotify Lyrics API using React.js, Next.js, MongoDB
- Integrated neural machine translation for seamless multilingual support, enhancing user experience with foreign-language songs using Google Cloud API, intended at driving increased user satisfaction

Stock Market Predictor **May 2024**

- Designed and implemented a stock prediction model using Python, leveraging machine learning techniques like random forest classification and sentiment analysis to analyze market trends and forecast stock prices
- Utilized libraries such as NumPy, Pandas, and Scikit-learn to preprocess data, train models, and validate accurate predictions

CAMPUS INVOLVEMENTS & LEADERSHIP

- Purdue Student Government: Director of Sustainability
- Electrical & Computer Engineering Student Society
- InnovateHer Hackathon: Program Lead
- Women in Engineering: Mentor, Recruitment

SKILLS

Programming & Technical Skills: C, Python, MATLAB, HTML, SQL, Java, ReactJS, Linux, Unix, Bash, Raspberry Pi, React.js, Node.js, NextJS, MongoDB, CSS, Express.js, Microsoft Office 365 (Excel, Word, PowerPoint, Outlook, Access), Google Suite

Undergraduate Writing Consultant at Purdue Writing Lab: Review documents including dissertations, research & creative papers, business documents, and resumes written by graduates and undergraduates

Language Competencies: English, Hindi, Marathi