Diya Shrivastava

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EDUCATION

Arizona State University, Tempe, AZ — Expected *December 2026*
B.S. in Computer Science, Minor in Business
Relevant coursework: Software engineering, Data Structures and Algorithms, Object-oriented programming, Cybersecurity

TECHNICAL SKILLS

Programming: Java, Python, C/C++, JavaScript
Web dev: React.js, Next.js, PostgreSQL, HTML, CSS, TailwindCSS
Data/ML: Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn
APIs/ Tools: Git, GitHub, Vercel, Streamlit Cloud, Hugging Face, Kaggle, Gemini API, Spotify Web API

EXPERIENCE

ASU Women in Computer Science | Web Master — *May 2025 – Present*
- Lead officer and developer in-charge of asuwics.org for 100+ members and sponsors

Paragon Autonomous LLC | Web Developer — *Jan 2025 – Present*
- Developed website using **Next.js** and **TailwindCSS**, establishing a professional web presence
- Built **responsive UI components** including navbar, partnerships page, products page, footer, reusable global button template.

ASU Engineering Projects in Community Service (EPICS) | Software Engineer — *Jan 2025 – Present*
- Developing an autonomous drone capable of detecting fire spread using machine learning algorithms.
- Earned **$1,000** at EPICS Elite Pitch
- Awarded **Innovation Award 2025**

Microsoft TEALS Volunteer | Teaching Assistant — *July – Dec 2024*
- Mentored high school students in Introduction to Computer Science, guiding them through coding exercises and problem-solving techniques.
- Led review sessions and provided one-on-one support to 25+ students

PROJECTS

ASL Hangman — *May 2025 - present*
- Developed **live ASL interpreter** using **MLP Neural Network** to recognize **26** static hand gestures
- Collected and preprocessed **10,000+** samples using MediaPipe Hands, OpenCV, Pandas
- Incorporated model inside interactive web-based game using **Next.js** and **FastAPI** to provide easy ASL learning experience

Membership Inference Attack on PCOS prediction models — *Feb- April 2025*
- Implemented **membership inference attack** on PCOS diagnosis prediction models to determine if a given member was part of the target model training dataset.
- Trained two target models: **logistic regression** (**91.2%** accuracy)**, random forest** (**98.4%** accuracy) using **Scikit-learn, numpy**, and **pandas** to preprocess dataset of 1000+ patient samples.
- Utilized shadow model predictions to train two attack models; visualized results using **Matplotlib and Seaborn**

AI Music Recommender — *Aug - Dec 2024*
- Developed an **AI-powered music recommendation system** using **Gemini API** to generating song suggestions based on user input for, event, audience, and mood.
- Integrated **Spotify Web API** to fetch and play preview track, enabling in-app song previews.
- Deployed with **Streamlit Cloud**; **presented** to 50+ attendees at Women in Computer Science Fall 2024 banquet

Speech to Text Conversion — *Jan - April 2024*
- Developed **audio-to-text converter** using **OpenAI Whisper** and **Python**, and displayed transcript on website
- **Presented** to 50+ attendees at Women in Computer Science Spring 2024 banquet

LEADERSHIP & ACHIEVEMENTS

- ASU EPICS: Innovation Award
- Dean's List Fall 2024
- Women In Computer Science Web Master
- Women in Computer Banquet Presentee: Spring 2024, Fall 2025, Spring 2025