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, Scheme, Prolog
Web dev: React.js, Next.js, FastAPI, PostgreSQL, HTML, CSS, Tailwind CSS, Streamlit, JavaFX, SQL
Data/ML: Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn
APIs/ Tools: Gemini, Spotify, Open AI, Hugging Face, Git, Figma, Kaggle

EXPERIENCE

Women In Computer Science | Web Master   *May 2025 – Present*
- Maintain and update asuwics.org and lead other software development ventures

Paragon Autonomous | Web Developer   *Jan 2025 – Present*
- Developed paragonautonomous.com 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. Additionally, integrated drone videos and images for visual engagement.
- Won the EPICS Innovation Award

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 session and provided one-on-one support to students

PROJECTS

Live ASL: Real-Time ASL Interpreter   *Jan 2025 - present*
- Developing **live ASL interpreter** that uses webcam footage to recognize ASL gestures to audio
- Trained **Convolutional Neural Network (CNN)** for static ASL gestures

ResuMatch: AI Job Recommendation System   *March 2025 - present*
- Developed **AI-based job recommendation system** with **collaborative filtering** for personalized job match, **BERT-based NLP models** to analyze job descriptions and **spaCy** for resume parsing
- Implementing backend using **FastAPI** with **PostgreSQL** database for user profiles and job listings, which are found using **Indeed APIs** and **web scrapping**
- Built frontend using **Next.js** with **OAuth2** Login

Membership Inference Attack on PCOS prediction models   *Feb- April 2025*
- Implemented a **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 **Sckit-learn, numpy**, and **pandas** to preprocess data
- 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 for suggested song
- Built interactive front-end with **Streamlit** and **presented** 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** project at Women in Computer Science Spring 2024 banquet

LEADERSHIP & ACHIEVEMENTS

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