Diya Shrivastava

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Education

Arizona State University Tempe, AZ
Bachelor of Science in Computer Science, Minor in Business *Expected May 2027*
Honors: Dean's List, Innovation Award 2025
Relevant Coursework: Data Structure and Algorithms, Software Engineering, ML, Object-Oriented Programming

Experience

Artificial Intelligence Intern June 2025 – Present
Accure Inc *Reston, VA*
- Working on AI-based mortgage compliance product to automate document processing
- Extracted key data from 100+ page pdfs utilizing Python, Docling, and AccureIQ API for NLP
- Structured extracted data into JSON format
- Implementing regex-based logic to detect data contradictions

Software Engineer Jan. 2025 – Present
Paragon Autonomous, Arizona State University *Tempe, AZ*
- Collaborating in a team of 10 to develop an autonomous drone to detect wildfire spread
- Led front-end web development to create website using Next.js and TailwindCSS
- Earned $1,000 at EPICS Elite Pitch; Awarded Innovation Award 2025

Lead Web Developer Aug. 2023 – Present
Women In Computer Science at ASU *Tempe, AZ*
- Officer and lead developer for asuwics.org for 100+ members and sponsors
- Utilized React.js and Firebase to maintain and improve site features

Volunteer Teaching Assistant July 2024 – Dec. 2024
Microsoft TEALS Program *Atlanta, GA*
- Assisted in teaching Introduction to Computer Science at Booker T. Washington High School
- Mentored and provided one-on-one support to 25+ students, guiding them through coding exercises and problem-solving techniques

Projects

ASL Hangman | *Python, FastAPI, Next.js, PostgreSQL, Docker, AWS* May 2025 – July 2025
- Developed a gamified full-stack web application to teach and practice American Sign Language
- Leveraged computer vision to create a live webcam feed for user input using OpenCV
- Collected 10,000+ samples and trained MLP Neural Network to recognize 26 hand gestures
- Created a global leaderboard with PostgreSQL and deployed with AWS services (RDS and Elastic Beanstalk)

MIA Research Project | *Python, Scikit-learn, NumPy, Pandas, Matplotlib* Feb. 2025 – April 2025
- Evaluated data leaks in machine learning model training datasets by implementing a membership inference attack on polycystic ovary syndrome prediction models.
- Trained logistic regression (91.2% accuracy) and random forest (98.4% accuracy) target models on 1000+ patient samples using Scikit-learn, NumPy, and Pandas
- Results showed more data leakage in the random forest model, indicating it memorized the data more

AI Music Recommender | *Python, Streamlit, Gemini API, Spotify Web API* Aug. 2024 – Dec. 2024
- Developed an AI-powered music recommendation system to generate song suggestions based on user input for event, audience, and mood.
- Utilized Gemini API with chain of thought reasoning (CoT); Integrated Spotify Web API for in-app song previews
- Deployed with Streamlit Cloud; presented to 50+ attendees at Women in Computer Science Fall 2024 banquet

Technical Skills

Languages: Python, Java, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Next.js, FastAPI, JUnit
Tools: Amazon Web Services (AWS), Git, Github, Docker, Vercel, Streamlit Cloud, Hugging Face, Kaggle
Libraries: Scikit-learn, Pandas, NumPy, Matplotlib