

TASKEEN JAFRI

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SUMMARY

Ambitious applied mathematics student at ASU with a **4.00 GPA** and strong expertise in machine learning, software development, and data analysis. Experienced in developing and deploying models using Python, PyTorch, and BERT, with applications ranging from spam classification to handwriting recognition. Passionate about leveraging machine learning to solve real-world problems.

EXPERIENCE

Mission Materials Archivist

Arizona State University

April 2024 - Present

- Involved with the Genesis mission, launched by NASA, to measure solar wind particles.
- Initiated and implemented a Python-based automation system for the archival process, significantly improving efficiency in handling archival data.
- Responsible for the collection, organization, and documentation of archival mission data, ensuring accurate analysis and secure storage at JSC (Johnson Space Center).

Instructional Aide

Arizona State University

Aug 2024 - Dec 2024

- Provided one-on-one and group tutoring to students, helping them understand complex mathematical concepts and improve their problem-solving skills.
- Graded assignments and group work, ensuring timely and accurate feedback.
- Provided academic support to over 200 students, assisting them in solving complex mathematical problems and enhancing their understanding of key concepts.

WEBSITES

Website

[https://tjafri.com/](https://tjafri.com)

LinkedIn

<https://www.linkedin.com/in/tjafri/>

SKILLS

[Python](#) [JavaScript](#) [TypeScript](#) [Java](#) [Java](#)
[NextJS](#) [React](#) [Nodejs](#) [Flask](#) [Google Cloud](#)
[Google Colab](#) [Docker](#) [Git](#)
[BERT](#) [CNN](#) [Machine Learning](#) [PyTorch](#)
[ChatGPT API](#) [HuggingFace API](#) [Whisper API](#)
[Nougat OCR API](#) [Tesseract OCR](#)
[Fusion360](#) [SketchUp 3D](#)

EDUCATION

Bachelor of Science (B.S.)

Arizona State University

Aug 2023 - May 2027 Tempe, AZ

- Bachelor of Science (B.S.), Applied Mathematics
- Dean's List: Fall 2023, Spring 2024, Fall 2024**
- 4.00 GPA

PROJECTS

ScamBuster

June 2023 - May 2024 <https://scambuster7.wordpress.com/>

- Developed ScamBuster - an SMS (aka Text Messages) Classification App that identifies scam/spam messages, with a team of three.
- Fine-tuned BERT model used in ScamBuster to classify SMS messages, with an accuracy of over 99.2
- Worked with Google Colab and coded using PyTorch library.
- Hosted the model on HuggingFace Interface API, enabling broader accessibility.
- Developed UI with Java for the mobile app.

SustainabilityAI

June 2024 - July 2024

- Winner of AI for Change hackathon by Devpost, competing against over 400 contestants.
- Developed a desktop application in Java that incorporates the lightweight TinyLlama LLM to generate personalized eco-friendly tasks and reminders, with optimized notification systems for task scheduling and low memory usage.
- Optimized integration and resource management of LLM API through testing and performance tuning, ensuring seamless functionality under constraints.

iGrader

Oct 2023 - Oct 2023 <https://igrader.vercel.app/>

- Made Grader at a hackathon with a team of 4. It helps teachers grade more easily and consistently.
- Worked on the website's back-end. Used Tesseract OCR, ChatGPT (GPT-4), and Nougat API for testing.
- Integrated ChatGPT API and Tesseract OCR API to operate the tool.
- Designed for deployment in university classrooms to assist 300+ students with faster grading.

LEADERSHIP EXPERIENCE

Vice President

Astronomy Club

Nov 2024 - Present

- Provide leadership for a club of over 300 members, managing monthly stargazing events and ensuring optimal use of Celestron telescopes for celestial observations.
- Collaborated with officers to enhance member engagement through activities like guided sky tours and astronomy-themed professor talks.

Financial Manager

The AI Society

Sept 2023 - May 2024

- Created budget requests and managed funding for the student organization with over 250 students.
- Collaborated with a diverse team to organize events and workshops focused on Python models, including topics like Zero-Shot VQA and models utilizing Whisper AI STT & Google TTS.