ASHKAN ARABI

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EDUCATION

B.S. Computer Science, Mathematics Minor   Graduating May 2026
the University of Texas at El Paso, El Paso, TX   GPA: 3.91
                                                                                                               Major GPA: 4.00

Honors & Activities: Dean's List since Fall '22 , Houston Endowment Scholarship Recipient
Relevant coursework: Discrete Structures, Data Structures, Matrix Algebra, Computer Architecture

SKILLS

Programming / Markup Languages: Python, HTML/CSS, C++, JavaScript, Java, LaTeX, Bash, Verilog
Frameworks & Software: Linux, TensorFlow, git, React.JS, Conda, Singularity
Certifications: Coursera Neural Networks & Deep Learning - July 2023

EXPERIENCE

AI4ALL, Remote: Student Coordinator   August 2023 - present
- Mentored 16 students across 4 project groups in AI4ALL's Apply AI program.
- Helped students understands concepts such loss, backpropagation, CNNs, RNNs, transfer learning, etc.

UTEP, El Paso, TX: Computer Lab Assistant   January 2023 - present
- Provided top-tier hardware & software tech support for 10+ students, staff, and faculty daily
- Maintained and updated hardware & software of 500+ computers through regular checkups

Temple University, Philadelphia, PA: Undergraduate Researcher   June - July 2023
- Conducted original research in team of 2 about using Wi-Fi CSI for hand gesture recognition on smartphones
- Developed CNN architecture to classify 5 gestures from 4 people in 6 scenarios (TensorFlow, Python, Bash)
- Obtained >90% classification accuracy by using techniques such as LR Scheduling (TensorFlow, Keras)

ACADEMIC & GROUP PROJECTS

Music Genre Classification   Spring 2023
Developed convolutional model to classify music genres based on their mel spectrogram
- Led team of 3 to meet project deadlines by dividing tasks based on skill level (Project Management)
- Designed, tested, and implemented CNN model for classification (TensorFlow, Numpy, Conda)

Blabber - a CLI Twitter replica   Fall 2022
Made CLI app that allows users to create an account, post, follow others, see a timeline, and delete their account
- Used scanners and writers to save, update, and delete user information and posts (Java)

PERSONAL PROJECTS

Advent of Code 2022   Summer 2023
Coded C++ solutions to 12 of 25 Advent of Code 2022 challenges.
- Used classes, queues, vectors, and streams to efficiently calculate results based on given inputs (C++)

Tweet topic detection   Summer 2023
Built model to detect one of 8 cyber-security topics mentioned in Tweets.
- Used Twitter pre-trained word embeddings and Bidirectional GRU to achieve 93% accuracy (Keras, NLP)

Tweet Sentiment Classification   Summer 2023
Built almost perfect model to classify positive and negative Tweets
- Achieved 99% accuracy using standard NLP preprocessing and along with Embedding and LSTM layers. (Keras)

LEADERSHIP

Association for Computing Machinery   Fall 2022 - Present
Multiple leadership roles, including publicity officer & treasurer
- Presented multiple interactive workshops attended by org members on topics such as Node.JS.