Tanzil Ahmed

linkedin.com/in/tanzilahmed | tanzil.ahmed@sjsu.edu | 408-780-5984 | github.com/tanzilahmed

EDUCATION

SAN JOSE STATE UNIVERSITY **San Jose, CA**

Bachelor of Science, Data Science *May, 2026*

- 3.63/4.0 GPA
- Relevant Coursework: Introduction to Programming, Introduction to Data Structures, Data Structures and Algorithms, Linear Algebra, Data Visualization
- SJSU Machine Learning Club

EVERGREEN VALLEY HIGH SCHOOL **San Jose, CA**

- 3.7/4.0 GPA *June, 2022*

TECHNICAL PROJECTS

NBA Game Predictive Model

- Developed and implemented a predictive analytics model to analyze and predict the winning team of NBA games using Python, Pandas, and Scikit-learn with 64% accuracy.
- Utilized advanced data preprocessing techniques including sorting, rolling windows, and groupby operations to prepare data for analysis.
- Scraped and parsed box score data using Playwright for browser automation and BeautifulSoup for HTML parsing, ensuring comprehensive and accurate data collection.

Object Detection for Images

- Developed and implemented an image detection model using PyTorch, leveraging advanced deep learning techniques to identify and classify objects within images
- Utilized Faster R-CNN for object detection, employing its region proposal network (RPN) to generate high-quality region proposals and its convolutional neural network (CNN) for feature extraction and object classification
- Preprocessed image data using libraries such as OpenCV and PIL, ensuring the images were correctly formatted and normalized for model input.

Gym Treadmill Usage Analysis Project

- Developed a comprehensive data analysis project using Python, focusing on gym treadmill usage data.
- Implemented statistical analysis and data visualization techniques using pandas, NumPy, and seaborn to derive insights from the dataset.
- Conducted hypothesis testing, including t-Test and one-way ANOVA, to analyze differences in treadmill usage across various demographics

File Compressor & Decompresser

- Designed and implemented a file compression program using Huffman coding to efficiently compress source files, significantly reducing file size with Java.
- Developed a decompression program to accurately reconstruct the original file from its compressed version using Huffman trees.
- Handled file parsing and string manipulation to convert file contents into appropriate data formats for compression and decompression.

SKILLS AND INTEREST

- Languages: Python, Java, C++, C
- Frameworks: Scikit-learn, PyTorch, NumPy, Pandas, OpenCV
- Interests: basketball, music, movies