Aniket Kumar

kumara29@msu.edu | (517) 819-2929 | Website

EDUCATION

Michigan State University, College of Engineering   East Lansing, MI
Bachelor of Science, Computer Science   August 2023 - Present
GPA: 3.56
Dean's List
Scholarship of $18,000 annually with additional $5,000 for study abroad plan

Sanskriti School   New Delhi, India
High School Diploma   April 2019 - March 2023
GPA: 3.0

PROJECTS

Personal Projects

- Deployed a Python-based Long Short-Term Memory (LSTM) neural network for Infosys stock predictions, integrating future forecasts and dynamic data visualization, improving investment accuracy by 25%
- Designed a stock screener to identify top-performing S&P 500 stocks by analyzing returns and key financial metrics.
- Engineered an image colorization model utilizing OpenCV and a pre-trained Caffe model, converting black-and-white images to color.
- Developed and trained a Convolutional Neural Network (CNN) using the CIFAR-10 dataset, classifying images into 10 categories, and implemented predictions for custom images.
- Trained an LSTM neural network model in Python to generate Shakespearean-Style text using a subset of the "Shakespeare.txt" dataset.
- Implemented a simple Chip8 interpreter/emulator using Pyglet, including functionality for graphics rendering, sound, and input handling.
- Utilized Python with gevent, collections, and socket programming to create a concurrent key-value store server, handling multiple client connections and executing commands like GET, SET and DELETE.
- Enhanced image processing code with error handling keypoint detection, matching homography computation, and 3D object rendering.
- Implemented a blockchain project that constructs and appends blocks, ensuring data integrity through hashing and timestamping.
- Engineered a friend suggestion software, leveraging logic similar to Facebook, and tested with 1000 records of Facebook data using Python.
- Developed a song lyrics matching app, handling a dataset of 60,000 records, using Python.

SKILLS

Beginner: C++, DSA, Java, HTML, JavaScript, CSS Adobe InDesign, Seaborn, SQL
Intermediate: Python, TensorFlow, Numpy, Matplotlib, Opencv, Keras, Sklearn, PyCharm, VS Code, LSTM, Git, GitHub

EXPERIENCE

Sanskriti Model United Nation, Sanskriti School   New Delhi, India
Assistant Director of Technical Operations   January 2021 - October 2021

- Utilized Adobe Photoshop, creating multiple Instagram posts, advertising event; Assisted in designing placards and editing videos for event using softwares Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro, Adobe After Effects