ADITYA MATHUR

Email: axm180195@utdallas.edu | LinkedIn: https://www.linkedin.com/in/adityamathur97/ | Mobile: 214-697-8324

Objective

To obtain a summer 2020 internship in the field of Computer Science.

Education

The University of Texas at Dallas, Richardson, Texas — Expected May 2021
Master of Science in Computer Science, **GPA 3.44/4**

Guru Gobind Singh Indraprastha University, Delhi, India — May 2019
Bachelor of Technology in Computer Science and Engineering, **GPA 8.32/10**

Work Experience

Software Engineer Intern, Defense Research and Development Organization, Delhi, India — Jun 2017 – Aug 2017
Worked in Defense Terrain and Research Laboratory on implementation of Multi Criteria Decision Analysis in Java using Euclidean distance method and built an android application for the same.

Academic Projects

Stock Exchange Web Application
Created a stock exchange web application that allows users to buy and sell stocks. Developed a scalable 3-tier responsive web application based on SOA principals. Also implemented backend RESTful APIs for stock trading, user profile management and bank transactions. Made asynchronous AJAX calls to Stock brokerage web services for fetching data.
Skills used: HTML, CSS, Ajax, PHP, JavaScript, jQuery

Library Management System
Created a Java based GUI application for library management system to maintain records of book issue, book return from student, Stock Maintenance, Catalog and book search to be computerized. The GUI of application was made using Swing framework and the data was maintained in a MySQL database.
Skills used: Java, Swing, MySQL

Implementation of Mini-Xception CNN Model
Implemented mini-xception CNN model on cohn-kanade dataset and trained a model to identify gender and emotion of subject based on facial features using a web camera.
Skills used: Python, Machine Learning, CNN

Comparing accuracy of SVM, CNN and ANN on an Image Dataset
Compared the accuracy of SVM, CNN and ANN to identify human emotions on Kaggle fer 2013 dataset. Results obtained showed that CNN has the highest accuracy of 91%. Further optimized the parameters of learning model and achieved high accuracy of up to 94%.
Skills used: Python, Machine Learning, SVM, ANN, CNN

Face Recognition using OpenCV
Built a Face Detection system using OpenCV that can identify multiple people in a picture using a web camera.
Skills used: OpenCV, Python

Multi Criteria Decision Analysis using Euclidean Distance Method
Built an application that uses Euclidean distance method for multi criteria decision analysis. The application provides best outcome out of all possible outcomes depending on multiple variables.
Skills used: Java, Android, XML

Computer Skills

Languages	: Java, C, C++, Python, R
Web Technologies	: HTML, XHTML, CSS, Bootstrap, PHP, AJAX, JavaScript
Operating Systems	: Windows, Linux, MS DOS
Databases	: SQL, MySQL
Frameworks & Tools	: React, Node.js, jQuery, Bootstrap, OpenCV, Keras, Git