SAI KRISHNA UDDAGIRI

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CAREER OBJECTIVE

Seeking a position as a young professional to enhance my knowledge to overcome the technological singularity in the future by giving ample input.

EDUCATION

Master of Science (M.S.): Computer Science **December 2021**
University of North Carolina at Charlotte, North Carolina.
GPA: 3.7/4.0
Relevant Coursework:

- Machine Learning
- Intelligent Systems
- Artificial Intelligence in Computer Games
- Knowledge Discovery in Databases
- Algorithms and Data Structures
- Computer Communications and Networks
- Database Systems
- Mobile Application Development
- Computer Graphics
- Introduction to Game Development

Bachelor of Technology (B.Tech.): Computer Science and Engineering **April 2019**
Malla Reddy Engineering College, Telangana, India.
GPA: 3.8/4.0
Relevant Coursework:

- Data Mining and Data warehousing
- Artificial Intelligence
- Applied Statistics
- Cloud Computing
- Object Oriented Analysis and Design
- Microprocessors and Microcontrollers
- Database Management Systems
- Big Data
- Network Security
- Advance Computer Architecture

TECHNICAL KNOWLEDGE

PROGRAMMING LANGUAGES: C, C++, JAVA, HTML, MySQL, Python.

TOOLS: Visual Studio, Jupyter Notebook, Code Blocks, Brackets, Turbo C7, Arduino, SQL Workbench, Android Studio, Eclipse.

WORK EXPERIENCE

- **The SmartBridge (Trainee Intern), Hyderabad, India** **May-Sep 2018**
  - Trained on "**Internet of Things**" in collaboration with IBM.
  - Developed Automated Room Lighting System using NodeRed and IBM Watson.
  - Used Arduino programming.

ACADEMIC PROJECTS

- **COVID 19 CASES FORECAST: TIME SERIES ANALYSIS** **June 2020**
  - Time Series Analysis is used to forecast the number of new cases.
  - Historical data of past 6 months is given as an input to the model.
  - Auto Regressive Integrated Moving Average(ARIMA) model is used to fit the Time Series Analysis data to predict the future points in the series.
  - Developed using **Python**.
- **STUDY OF SUPERVISED MACHINE LEARNING ALGORITHMS** **July 2020**
  - Presented a paper illustrating few supervised machine learning classification algorithms.
  - Classification algorithms like K-Nearest neighbor, Naïve Bayes, Logistic Regression are explained.
  - Studied different research works related to these classification algorithms in various fields like healthcare diagnostics, fraud detections, image classification, speech recognition, handwriting recognition, spam detection, bioinformatics.

- **NATURAL LANGUAGE PROCESSING** **August 2020**
  - Presented a paper discussing the ideas acquired from the study of natural language processing, the stages involved in NLP for building a system, the architecture of NLP.
- **LZW ENCODING/DECODING ALGORITHM** **April 2020**
  - Simulated LZW Algorithm.
  - Developed using **Python**.
  - Encodes and decodes a text file.
- **CITY EXPLORE PLANNER ANDROID APPLICATION** **April 2020**
  - Enables us to add, delete new places in the trips we want to take in the future.
  - Displays a map of the trip and store this information in Google Firebase.
  - Uses the **Google Places API**.
  - Developed using **Java** in Android Studio.
- **TASK PRIORITIZER ANDROID APPLICATION** **April 2020**
  - Saves to-do tasks where you can add tasks, assign their priorities, mark their status, and delete the tasks.
  - Stores the information in **Google Firebase**.
  - Developed using **Java** in Android Studio.
- **DISTANCE VECTOR SIMULATION ALGORITHM** **March 2020**
  - Simulated the working of a Distance Vector Algorithm.
  - Finds the best route with the shortest distance between network nodes even when some nodes are removed from the topology.
  - Developed using **Java**.
- **HTTP HOST AND CLIENT SOCKET SIMULATION** **March 2020**
  - Developed a host and a client server in **Java**.
  - Established communication between them to send, receive and handle requests using sockets
- **IMAGE PROCESSING AND MACHINE LEARNING FOR PRECISION VITICULTURE**
  - Predicting a species of grape among 6 different species **January 2019**
  - Using image processing on dataset containing grape images.
  - Model developed in **Python** using **TensorFlow** framework.
- **MEDICAL IMAGE PROCESSING USING DEEP LEARNING** **October 2018**
  - Identify and detect the occurrence of a disease based on a medical image.
  - Using image processing on medical images(scanned photos) dataset.
  - Model developed in Python using CNN.
- **QUERY HANDLING SYSTEM** **June 2018**
  - Developed a web application using **JDBC**
  - Aims to improve the communication between students and faculty.

EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Volunteered for "Airtel Hyderabad Marathon" event under waste management as a member of Earthlings NGO.
- Participated in a two-day national level youth meet on "Safe water for future" organized at Malla Reddy Engineering College by the government of India.
- Positioned a winner in volleyball in Inter-branch sports competition held by Rao's My Techno School.
- Participated in events like "Debugging through C" and "Survivor Brain" at national level Techno-Cultural fest "Akshara-2K17" at Malla Reddy Engineering College.