Prakyath Madadi

prakyath41@gmail.com | +1 214-727-3652 | Github: prakyath-04 | Linkedin

EDUCATION

NEW YORK UNIVERSITY TANDON SCHOOL
Brooklyn, New York
MS | Computer Engineering
2021 – present
CGPA : 3.889/4

IIIT HYDERABAD
Gachibowli, Hyderabad, Telengana.
B-Tech | Electronics and Communication Engineering
2016 – 2020
CGPA : 8.43 /10

SKILLS

Languages : Python | Matlab | C | C++ | SQL | HTML | CSS | Scala | Embedded C | Verilog (HDL) | Bash scripting | Assembly
Libraries/Frameworks Tensorlflow | Pytorch | Keras | OpenCV | MongoDB | Django | Hadoop | Apache Spark

ACHIEVEMENTS

• Dean's Merit list of meritorious students for the monsoon 2018-2019 semester.

COURSEWORK

Graduate Courses
Principles of Databases | Big Data | Data Structures and Algorithms | Machine Learning | Deep Learning * | Machine Learning for CyberSecurity* | Embedded Systems * | Computer Systems architecture | Robot Localization and Navigation

Undergraduate Courses:
Data Structures | OS and Algorithms | IT Workshop | Math - Graph Theory, Linear algebra | Statistical Methods in AI | Digital Image Processing | Computer Vision | Mobile Robotics

Online Courses: Coursera: Machine Learning - Stanford University || Coursera: Deep Learning Specialization - deeplearning.ai

** Ongoing Coursework*

EXPERIENCE

SDE INTERN | Mentor Graphics May 2019 - July 2019
Helped automating the software tools at Mentor Graphics, Hyderabad

TEACHING ASSISTANT | New York University June 2021 -
Machine Learning

- Currently helping the professor conduct the machine learning course at NYU, Tandon, by responding to student queries and homework evaluations.

PROJECTS

IMAGE TEXT RECOGNITION *
Deep Learning

- Currently working on model that can extract text from images using Deep networks, inspired by the Google lens image to text converter.

INSTANCE-LEVEL SALIENT OBJECT SEGMENTATION
Computer Vision

- Achieved the detection of the salient object instances from the salient regions using a multi-scale refinement network (MSRNet), which uses the VGGNet at different scales of input.

MUSIC RECOMMENDATION SYSTEM
Big Data

- Implemented a collaborative filtering based music recommending system on apache spark.

RL AGENT FOR SNAKE GAME
Independent Study | Dr.Pawan Kumar Jan 2019 -- April 2019

- Improved the performance of an RL agent on snake game by transferring the weights of a Q network that has been trained to play PuckWorld game.

AUTOMATIC PANORAMA STITCHING
Digital Image Processing

- Our algorithm can construct all possible panoramas from a given a set of images (of different scale, orientation and illumination).

WEB-BASED INTERFACE FOR A DATABASE
Principles of Database Systems

- Successfully created a web based user interface for users to interact with a Database. The users can perform basic CURD (create, update, read and delete) operations.

Undergrad Research – Dr. Madhava Krishna *Aug 2019 – May 2020*

QUAD ROTOR MANEUVER REPLICATION USING RL
•Assisted on the project dealing with replication of complex maneuvers performed by the drone

MULTI AGENT COLLISION AVOIDANCE USING TIME SCALING
•Contributed to the team working on multi agent collision avoidance problem, where each agent follows a global algorithm based on time scaling.

** Ongoing Project*