

EDUCATION

IIIT, HYDERABAD

B-TECH (HONOURS) IN COMPUTER
SCIENCE AND ENGINEERING

CGPA: 9.50/10.0

Expected May 2021

Hyderabad, India

SKILLS

PROGRAMMING

Proficient and Experienced in: C++ •
Python3 • C

Familiar with : MATLAB • Javascript •
MySQL • Git • HTML5 • CSS • Flask •
Golang

SOFTWARE AND TOOLS

TensorFlow • Pytorch • Bash • ReactJS •
OpenGL • Neo4J • \LaTeX

COURSEWORK

• **Programming Courses** Introduction to
Computer Programming, Data Structures
and Algorithms.

• **Research Related Courses** Statistical
Methods in Artificial Intelligence, Topics In
Machine Learning, Deep Learning.

• **Mathematics Courses** Probability and
Statistics, Probabilistic Graphical Models,
Discrete Structures.

• **Other Courses** Operating Systems,
Computer Networks, Computer System
Organization, Digital Signal Processing,
Distributed Systems.

POSITIONS

• **Teaching Assistant** under Prof. Girish
Varma for the course **Probability and
Statistics** (MA6.101).

CODING PROFILE

- Username **suzaku_kuru** .
- Codeforces : Max Rating - **1532**
- Codechef : Max Rating - **1871**
- Facebook Hackercup 2018, 2019:
Qualified till Round 1. (Username - **Suzaku**)
- Google Kickstart : Best Rank **1504** .

ACHIEVEMENTS

• **Dean's List Awardee** for being top 5%
performer in class for 6 consecutive
semesters.

EXPERIENCE

NVIDIA | SOFTWARE ENGINEER INTERN

April 2020 - June 2020 | Pune, India

- Worked at Nvidia, as a **Software Intern** in the **Cloud gaming (GeForce) Team** . My
work revolved around **designing a Convolutional Neural Network that can
prefilter images as a pre-processing step before compression** .
- This Network can be used to preprocess video frames before encoding to reduce
the bits-per-pixel required.

MACHINE LEARNING LAB | UNDERGRADUATE RESEARCHER

May 2019 - Present | IIIT, Hyderabad | Advisor: Prof. Naresh Manwani

- Currently working on designing algorithms for **Multiclass Classification under
bandit setting with dilute feedback** , taking inspiration from the popular
Banditron algorithm.

VIRTUAL LABS | RESEARCH INTERN

November 2018 - December 2018 | VLEAD, Hyderabad, India

- Developed full fledged experiments and interactive artefacts in JavaScript and
Python for various data structures and algorithms at The Virtual Labs, a social
initiative of the Government of India.
- Presented our work at **Rnd Showcase 2019** at IIIT, Hyderabad. [**Poster**]

PROJECTS

LINUX SHELL | OPERATING SYSTEMS | C

- Implemented a **Linux Bash Shell** , a command line interpreter in C.
- It supports a number of bash commands along with piping, redirection,
foreground and background processing.

SCALABLE WEB CACHE | DISTRIBUTED SYSTEMS | PYTHON

- Built a **miniature scalable web cache** for distributed setting using
consistent hashing which handles simultaneous requests from multiple
clients.

REINFORCEMENT LEARNING | TOPICS IN MACHINE LEARNING | PYTHON

- Implemented simple Dynamic Programming algorithms like **Policy and
Value Iteration** on MDP based environments.
- Used **Monte-Carlo Methods and Temporal Difference Learning** to
observe learning on a couple of games and toy problems.

FACE CLASSIFICATION | MACHINE LEARNING | PYTHON

- Trained various **learning models** on a dataset of real and animated face
images by applying different feature transformations and analysed the
classification results.

GAME DESIGN | GRAPHICS | PYTHON, JAVASCRIPT, C++

- Built a **2D arcade game** and **3D flight simulator** game in **OpenGL 3.0** using
texture mappings, projections and lighting. The game supports multiple
camera views for a great gameplay.
- Built a browser game inspired from **Subway Surfers** using **WebGL** .

AI BOT | INTRODUCTION TO ARTIFICIAL INTELLIGENCE | PYTHON

- Implemented **Minimax** algorithm along with **Alpha-Beta pruning** to build a
bot which is able to play ultimate tic tac toe (a modified version of Tic Tac
Toe).
- Qualified for semi-finals in the bot competition where 72 teams
participated.