Sagnik Gupta

Student, IIIT Hyderabad

September 25, 1996

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SKILLS

- Programming Languages
  - C++, C, Java, Python
- Platform
  - Linux, Windows
- Web Technologies
  - HTML, CSS, JavaScript

COURSE WORK

- Advanced Problem Solving
- Data Structures and Algorithms
- Operating System
- Machine Learning
- Information Retrieval and Extraction

CERTIFICATIONS -

- NPTEL certification course on "Design and Analysis of Algorithms", conducted by IIT Madras.
- NPTEL certification on "Introduction to Modern Application Development", conducted by IIT Madras.
- NPTEL certification course on "Programming, Data Structures and Algorithms using Python", conducted by IIT Madras.

POSITIONS OF RESPONSIBILITY -

- Student Placement Coordinator, IIIT Hyderabad
- Member of the Computer Society of India, Kolkata Chapter

Work Experience

May, 2020 - July, 2020 — **Research Intern, Samsung R&D Institute Bangalore**

Project: Video Instance Segmentation

Worked under the Visual Intelligence R&D team to build a deep learning model to detect, segment and track object instances in a video sequence.

Technology Used: PyTorch, TorchVision

Education

2019 - present — **M.Tech - Computer Science and Engineering**
IIIT Hyderabad — CGPA: 9.21

2015 - 2019 — **B.Tech - Computer Science and Engineering**
Institute of Engineering and Management, Kolkata — CGPA: 9.06

April, 2015 — **ISC - Standard XII**
Modern English Academy, Barrackpore — Percentage: 95.50%

April, 2013 — **ICSE - Standard X**
Modern English Academy, Barrackpore — Percentage: 96.00%

Projects

August, 2020 — **Wikipedia Search Engine**
Technology used : Python3

Designed a complete search engine on top of 42 GB Wikipedia corpus, with subsecond latency for searches.

It implements ranking mechanism for documents and provides additional support for field queries, along with normal queries.

October, 2019 — **Peer-to-Peer Based File Sharing System**
Technology used : C++

Developed a file sharing system like BitTorrent, where users can upload and download files in a peer to peer network.

It provides support of multithreading and additional fault tolerance features by maintaining two trackers.

May, 2020 — **Identification of Fake News in Online Media**
Technology used : Python3

Identification of news articles as reliable or unreliable in online media.

Comparison study of different Machine Learning and Deep Learning techniques to identify fake news on the Nela-GT-2019 dataset.

December, 2019 — **Single Image Haze Removal**
Technology used : Python3

Implemented haze removal using only the single source image.

It uses the Dark Channel prior as a basis for estimating the thickness of the haze and removes it using the thickness map.

November, 2019 — **Inode based File System**
Technology used : C++

Implemented a inode based file system on top of a virtual disk, designing our own methods for the basic file system operations.

The GUI feature eases navigation through the file system and view the present contents in it.

Achievements

Present — **Codechef :** Codechef rating of 1693 with 3 stars.

May, 2019 — **Project :** Certificate for best final year project-2019 entitled "A Multi-Level Polygonal Approximation Based Shape Encoding Framework for Automated Shape Retrieval"

April, 2019 — **Gate, 2019 :** Secured 98.54 percentile in Gate CSE, 2019.

April, 2013 — **ICSE, 2013 :** Secured top 1 percentile score all over India.