

Sagnik Gupta







Student, IIIT Hyderabad

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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
-  Natural Language Processing
-  Information Retrieval & 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: 9.05
- 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 95.50%
- April, 2013 **ICSE - Standard X**
Modern English Academy, Barrackpore 96.00%

Projects

- August, 2020 **Wikipedia Search Engine**
Technology used : Python3
Designed a complete search engine on top of 42 GB Wikipedia corpus, with sub-second latency for searches.
It implements ranking mechanism based on TF-IDF score 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 implements piece-wise selection algorithm for the transferring of files between the peers.
- May, 2020 **Identification of Fake News in Online Media**
Technology used : Python3, Scikit-Learn, Keras
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.
- 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 and removing the thickness of haze in an image.
- November, 2019 **Inode based File System**
Technology used : C++
Designed a inode based file system on top of a virtual disk, providing support for the basic file system operations and added GUI features.

Achievements

- Present **Codechef :** Codechef rating of 1823 with 4 stars.
- Present **HackerRank :** Problem Solving Gold badge with 5 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.