

# Sagnik Gupta





Student, IIIT Hyderabad

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## SKILLS

 Programming Languages  
 C++, C, Java, Python  
 Platform  
 Linux, Windows




## 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  
 Technical Coordinator at Innovacion, IEM Kolkata.  
 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 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*  
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 1693 with 3 stars.  
Present **HackerRank :** Problem Solving 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.