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: 9.05
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	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, 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 1757 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.