

**ABHINAV GUPTA**

Course : B.E. (Hons.), Computer Science, 2020  
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 CGPA : 6.82

**ACADEMIC DETAILS**

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Non - Medical	Mukand Lal Public School	CBSE	94.8 %	2016
CLASS X		Mukand Lal Public School	CBSE	10 CGPA	2014

<b>Subjects / Electives</b>	Network Programming, Database Systems, Machine Learning, Operating Systems, Computer Architecture, Data Mining, Information Retrieval, Object Oriented Programming, Design and Analysis of Algorithms, Data Structures and Algorithms, Discrete Structures in Computer Science, Computer Networks, Compiler Construction
<b>Technical Proficiency</b>	Deep Learning, Natural Language Processing, Data Science, Linux, HTML, Python, C Programming, Machine Learning, OpenCV, Java, IBM SPSS Modeler, C++ Language

**SUMMER INTERNSHIP / WORK EXPERIENCE**

<b>Intern, MapmyIndia</b>	<b>Jul 2019 - Dec 2019</b>
Worked at MapmyIndia, Bengaluru, an R&D unit for the development of HD Maps for autonomous car applications. <b>'Road obstacle detection and segmentation, lane segmentation for HD Maps'</b> <ul style="list-style-type: none"> <li>Camera Calibration(Extrinsic and Intrinsic) implementation and study of various other aspects of geometry in Computer Vision.</li> <li>Analysis of Apolloscape Datasets for Autonomous Car Applications.</li> <li>Researching the implementation of the dataset preparation pipeline used by Apollo for preparing segmentation datasets.</li> <li>Hands-on experience in training YOLO object detection architecture on custom datasets. Testing and evaluation of YOLO using standard metrics like mAP.</li> </ul>	
<b>Summer Intern, IIT Roorkee</b>	<b>May 2019 - Jun 2019</b>
Worked as a Summer Intern at Railtel - IIT Roorkee Centre of Excellence in Telecom(RICET), IIT Roorkee <b>'Extraction of Urban Areas from binary PolSAR images'</b> Developed an algorithm to filter the urban areas from others in a binary PolSAR image. Based on the features like shape, size, proximity depicted by urban areas, I worked on an approach using a combination of various image processing techniques in OpenCV(Python).	
<b>Intern, IDS Infotech</b>	<b>May 2018 - Jul 2018</b>
<b>'Finding patterns and predictions using employee attendance data'</b> Applied various Machine Learning algorithms to the company's employees' attendance records to discover trends and patterns in quantities like their attendance, working hours, etc during different parts of the week, month and so on.	

**PROJECTS**

<b>Implementation of TFTP protocol in C - Network Programming</b>	<b>Apr 2019 - May 2019</b>
Part of the course Network Programming. <ul style="list-style-type: none"> <li>Designed the TFTP(Trivial FTP) as in RFC1350 in C language.</li> <li>Implemented various features like file read/write, resends, timeout using Jacobson's Algo etc.</li> </ul>	
<b>Compiler Construction - DSA, Principles of Programming Languages</b>	<b>Jan 2019 - May 2019</b>
Constructing a compiler for a specified language in C.	
<b>Classification and quantification of gases detected by cross sensitive gas sensors - Machine Learning</b>	<b>Jan 2019 - May 2019</b>
Part of a study oriented project (SOP) at CEERI, Pilani. Calculating the concentration of various gases affecting the recording of a cross-sensitive gas sensor.	
<b>Leveraging sentiment analysis at the aspects level to predict ratings of reviews. - Information Retrieval, ML, Web Crawling</b>	<b>Nov 2018 - Jan 2019</b>
Involves predicting ratings for online reviews based on the various aspects and their respective context. Also involves web crawling for extracting reviews.	

**POSITION OF RESPONSIBILITY**

<b>Co-ordinator - Hindi Press Club</b>	<b>Jan 2018 - May 2018</b>
<ul style="list-style-type: none"> <li>Organized a panel on Modern Journalism with eminent journalists as speakers.</li> <li>Led a team of 40 members including writers, designers, and editors for the college technical fest, APOGEE'18.</li> <li>Coordinated publishing of daily newsletters during the fest.</li> </ul>	

**COMPETITIONS**

<b>Jee Advanced</b>	<b>May, 2016</b>
AIR 6444	
<b>BITSAT</b>	<b>Apr, 2016</b>
Scored 423 out of 450	

**LANGUAGES KNOWN**

English, Hindi
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