



## SUSHANT KUMAR

Course : **M.Sc. (Hons.)**, Physics and **B.E. (Hons.)**, Mechanical Engineering, 2021

Email : f2016655@pilani.bits-pilani.ac.in

Mobile : 8002456150

CGPA : 8.07



### ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	D.B.M.S English School	ISC Examinations	91.2 %	2015
CLASS X	D.B.M.S English School	ICSE	87.5 %	2013

<b>Subjects / Electives</b>	Computer Programming, Object Oriented Programming, Computer Applications, Quantum Information and Computer Science, Computational Physics, Pattern Recognition, Probability and statistics, Principles of Management
<b>Technical Proficiency</b>	HTML + CSS, Bootstrap, JavaScript, JQuery, PHP, PhpMyAdmin, MySQL, Java, C++ Language, MATLAB, Powershell

### SUMMER INTERNSHIP / WORK EXPERIENCE

<b>Software Developer Intern, Blue Yonder</b>	Jul 2020 - Dec 2020
<ul style="list-style-type: none"><li>Created a fully functional, easy to use web application for the Support team for managing customer operations.</li><li>Automated the entire process, increasing efficiency and reducing error probabilities.</li><li>Designed both, frontend and backend of the application.</li></ul>	

### PROJECTS

<b>Application of Chaos in Cryptography - Chaos Theory</b>	Jul 2019 - Present
<ul style="list-style-type: none"><li>Encrypted/Decrypted images using Logistic maps and Lorenz maps.</li><li>Used mathematical tools and encryption algorithms for transmitting text data securely.</li></ul>	
<b>Applications of Image Processing - Image processing</b>	Jul 2019 - Present
<ul style="list-style-type: none"><li>Worked on various algorithms for Image compression and Segmentation.</li><li>Detected tumour in MRI images of brain using Morphological operations</li></ul>	

### POSITION OF RESPONSIBILITY

<b>Campus Ambassador - Internshala.</b>	Mar 2019 - Jul 2019
<ul style="list-style-type: none"><li>Organised projects, seminars, talks, in order to inculcate a culture of internships among students.</li><li>Introduced discounted offers for BITS Pilani students for training programs at Internshala.</li></ul>	

### EXTRA CURRICULAR ACTIVITIES

<b>Games and Sports.</b>	
<ul style="list-style-type: none"><li>Consecutively won four Rummy tournaments on Adda52.com among 150 participants.</li><li>Won Silver medal in the Interschool cricket competition.</li></ul>	

### AWARDS AND RECOGNITIONS

<b>Tata Steel Millennium Scholarship   Tata Steel</b>	Apr 2016
<ul style="list-style-type: none"><li>Received INR 50000/year as scholarship from Tata Steel as part of Tata Steel Millennium Scholarship.</li><li>Awarded a medal and cash prize for being in top 5% of the batch in ISC board examinations.</li></ul>	

### VOLUNTEER EXPERIENCE

<b>Toppr.com</b> - Role: Educator   Content developer   Cause: Education	May 2019 - Present
<b>Hashlearn.</b> - Role: Educator   Cause: Education	May 2018 - Mar 2019

### LANGUAGES KNOWN

Hindi, English
----------------