



# SUSHANT SHEKHAR BURNAWAL

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## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	Bachelor of Technology Honors	Indian Institute of Technology, Kharagpur	8.31/10
2017	XII(CBSE)	Sarvodaya Senior Secondary School, Kota	87.0%
2015	X(CICSE)	St. Augustine's Day School	97.0%

## SKILLS

**Programming Languages:** C/C++, R programming, Python, MATLAB, OCTAVE, XML, JAVA, CSS

**Software:** Adobe Photoshop, Adobe Illustrator, Solidworks, Adobe InDesign, Android Studio, MySQL, MS-Excel, MS-PowerPoint

## UNDERGRADUATE AND ONLINE COURSES

### Undergraduate:

Probability and Stochastic Processes | Programming and Data Structures | Basic Economics | Partial Differential Equations |

### Online:

Machine Learning by Andrew NG(Coursera) | Analytics Edge (edX) | Python for Data Science (edX) | C++, JAVA (New Boston) |

Android Basics: User Interface, User Input, Data Storage, Multiscreen Apps, Networking (Udacity)

## TECHNICAL EXPERIENCE

### Undergraduate Research | Prof. Jhareshwar Maiti

August 2018 - Present

- Prediction of machinery related accidents using scarce data.
- Employed Logical Analysis of Data to the training data by the use of Data binarization, SCP and FOCUS-2 algorithms.
- Application of theory formation on the test data to predict the accidents.

### Open IIT Data Analytics | IIT Kharagpur

September 2018

- Employed ARIMA Time Series Model to the given data of sales of medicine to predict the sales pattern in coming years
- Deduce interpretation from analyzed data to device Inventory Management Strategy to maximize profit and increase sales
- Platform used: R and MS-Excel

### APP Development | Awaaz IIT Kharagpur

December 2018

- Upgraded the user interface of the Awaaz App by increasing the use of fragments, lists, array adapter etc
- Transformed the design interface and made the app more user friendly.
- Created other applications like QuakeReport which use information from USGS API to notify about earthquakes

### Autonomous Winter Workshop | IEEE

December 2017

- This winter workshop was organized by Technology Robotix Society and certified by IEEE.
- Built a gesture-controlled robot which moves over an array of coloured squares and displays the colour over a screen.
- Intermediate Robotics was taught

## POSITIONS OF RESPONSIBILITY

### Senior Reporter | Awaaz, IIT Kharagpur

- Designed posters for several events and monthly newsletter, reaching over entire institute community
- Sponsorship collection from local and online sponsors to raise fund for monthly publication
- Analysed the problems pertaining in the campus and took initiatives to reach out to the administration for solution
- Developed and published insights regarding several issues like mess problems, elections, placements and internships
- Currently heading and managing a team of 16 members and mentoring them.

### Sub-Head Design Team | Kshitij, IIT Kharagpur

- Asia's largest techno management fest.
- Designed creative posters for several events of the fest resulting in significant increase in the reach of event.
- Involved in on campus and online publicity of fest, increasing the number of participants

## ACHIEVEMENTS/AWARDS

**2018** Gold in Inter-Hall choreography, Azad Hall of Residence, IIT Kharagpur

**2018** Bronze in Open IIT Data Analytics, IIT Kharagpur

**2018** Bronze in Biz Quiz in Kshitij, IIT Kharagpur

**2017** Joint Entrance Examination (Advanced): 97.86 percentile in 200,000 candidates

**2017** Joint Entrance Examination (Mains): 99.77 percentile in 1,100,000 candidates