



SUSHANT SHEKHAR BURNAWAL

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	Bachelor of Technology Honors	Indian Institute of Technology, Kharagpur	8.15/10
2017	XII(CBSE)	Sarvodaya Senior Secondary School, Kota	87.0%
2015	X(CICSE)	St. Augustine's Day School, Kolkata	97.0%

ACHIEVEMENTS

- Ranked in Top **1%** among 1.59 lakh students appeared in IIT Joint Entrance Examination (Mains and Advanced) 2017
- Among Top 10 students in the 2021 batch of Department of Metallurgical and Materials Engineering.

SKILLS

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

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

UNDERGRADUATE AND ONLINE COURSES

Probability and Stochastic Processes | Programming and Data Structures | Basic Economics | Partial Differential Equations | Machine Learning (Andrew NG) | Analytics Edge (edX) | Python for Data Science (edX) | C++, JAVA (New Boston) |

PROJECTS

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 that occur due to conveyer belts.

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

COMPETITIONS/CONFERENCES

Inter Hall Data Analytics | IIT Kharagpur | Secured: Bronze **January 2019**

- Predict traffic congestion in mobile network.
- Analyzed data consumption by different network at different times to predict the possibility of congestion
- Applied data Maximum Vote Classifier on SVM-rbf kernel, XGBoost, LightGBM and ANN

NetApp Data Challenge | Kshitij, IIT Kharagpur | Secured: Bronze **January 2019**

- Performed Text Classification on the given data of news Headlines and categorised them into 41 different categories
- Used TF-IDF features and Topic Modelling for feature extraction and trained data using Support Vector Machines.
- Performed Model Ensemble on the results obtained from SVM-linear kernel, Logistic Regression and Multinomial Naïve Bayes

Open IIT Data Analytics | IIT Kharagpur | Secured: Bronze **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
- Undertook extensive use of platforms like Python, RStudio, MS-Excel and Tableau to perform complete analysis

POSITIONS OF RESPONSIBILITY

Senior Reporter | Awaaz, IIT Kharagpur

- Designed posters for several events and monthly newsletter, reaching over entire institute community
- Interviewed the likes of Nobel peace prize recipient Md. Younis and Swiggy co-founder Mr. Rahul Jaimini
- 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

EXTRA CURRICULAR/ACTIVITIES

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