

Saransh Gupta

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EDUCATION	Indian Institute of Technology, Kharagpur <i>B.Tech and M.Tech, Quality Engineering Design and Manufacturing (2017-2022)</i>				
EXPERIENCE	teamKART, IIT Kharagpur (JULY 2017 - MAY 2018) Managed workshops by teamKART, IIT Kharagpur on automotive engineering, produced funds by sponsorships.				
PROJECTS	<p>Build a Machine-Learning model to train human to bail out of fire via optimal path March 2019-Present Prof. J.Maiti (Ex H.O.D. Industrial and systems Engineering), IIT Kharagpur</p> <p>Created a virtual environment of a hospital building to detect human behaviour in case of fire in the building, currently we are working on training Human to bail out of fire via optimal path possible from the building</p> <ul style="list-style-type: none">• Technology/Tools: machine learning, Python, Tableau, Unity3D, Virtual Reality Oculus-rift, solidWorks, Ansys 18.1, C-sharp, computational fluid dynamics, human body motion dynamics. <p>Prediction of the type of Network Congestion (BRONZE) JAN 2019 Azad Hall, IIT Kharagpur</p> <p>Worked for the Visualization of data-set and then making interpretation of trends followed by different variables. Feature Engineering. Application of SVM, random-forest, decision trees, logistic regression, XGBOOST, ensembling.</p> <ul style="list-style-type: none">• Technology/Tools: Python, Tableau <p>Forest Type Classification. (Top Finalist of the competition) March 2019 Prakriti, IIT Kharagpur</p> <p>Data visualization, Interpretation, feature engineering, extracting out some common trend out of the data and plot, Feature modification to obtain some better results out of the model.</p> <ul style="list-style-type: none">• Technology/Tools: Python, tableau, machine learning libraries such as numpy, scikit-learn, pandas, matplotlib <p>Find trends in heart data to predict certain cardiovascular events. JAN 2019 KAGGLE, IIT Kharagpur</p> <p>Applied feature engineering in the data-set with application of some basic Mathematics.</p> <ul style="list-style-type: none">• Technology/Tools: Python, machine learning libraries such as numpy, scikit-learn, pandas, matplotlib <tr><td>TECHNICAL STRENGTHS</td><td>Languages : Python, C, R, C-Sharp Familiar : Matlab,HTML, CSS, Tableau, R-Studio Other tools : solidWorks, Ansys, MS-Excel, Unity3D</td></tr> <tr><td>CERTIFICATION</td><td><ul style="list-style-type: none">• Prediction of the type of Network Congestion— Azad Hall ,IIT Kharagpur <i>Bronze Medal</i>• Level 2 (Qualifier) — Flipkart GRID challenge 2019 — flipkart• Machine Learning — Stanford University (online) — Coursera• Deep Learning — deeplearning.ai — Coursera• 3D Models for Virtual Reality—University of London (online)—Coursera</td></tr>	TECHNICAL STRENGTHS	Languages : Python, C, R, C-Sharp Familiar : Matlab,HTML, CSS, Tableau, R-Studio Other tools : solidWorks, Ansys, MS-Excel, Unity3D	CERTIFICATION	<ul style="list-style-type: none">• Prediction of the type of Network Congestion— Azad Hall ,IIT Kharagpur <i>Bronze Medal</i>• Level 2 (Qualifier) — Flipkart GRID challenge 2019 — flipkart• Machine Learning — Stanford University (online) — Coursera• Deep Learning — deeplearning.ai — Coursera• 3D Models for Virtual Reality—University of London (online)—Coursera
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• **Introduction to Data-Science**—Coursera

**RELEVANT
COURSES**

- Machine learning with python • Deep Learning with Tensorflow • Probability and statistics
- Operations and Research • Introduction to data science in R
- Computer Graphics • Introduction to python for Data-science
- working with Unity3D for virtual reality • Programming with C • Introduction to MATLAB

Achievements

- Cracked JEE Mains 2017 with rank under **top 0.37** percent out of total appearing (**15 lakh**) candidates.
- Cracked JEE Advanced 2017 with rank under **top 1.6** percent out of total appearing (**2.5 lakh**) candidates.
- **All India Rank 4** in Master-Mind Abacus competition held in 2012.
- Was a presenter of the **GOLD** winning team of Inter-Hall Gardening and elocution Competition from Azad Hall of Residence, IIT Kharagpur in March 2019.

**EXTRA-
CIRRICULAR**

- Swimmer at Azad-hall, IIT Kharagpur.
- Mechanical Team member at AUV, IIT Kharagpur.
- Volunteer at **Spring Fest 2018**, IIT Kharagpur.
- Volunteer at **KHOJ 2018**, IIT Kharagpur.