

# Harsh Mittal

PRE FINAL YEAR · IIT ROPAR

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## Education

### IIT ROPAR (Indian Institute of Technology Ropar)

Punjab, India

B.TECH IN ELECTRICAL ENGINEERING : 8.46 / 10

July 2018 - Present

- **Courses Taken** : Introduction to Computing and Data Structures, Algorithms and Data Structures, Calculus, Linear Algebra, Discrete Mathematics, Differential Calculus, Digital Logic Design, Signals and Systems, Professional Communication, Probability & Stochastic, Micro & Macro Economics etc.

### Central Board of Secondary Education

Rajgarh, India

INTERMEDIATE : 89.8%

MATRICULATION : 10/10

Mohta Public School

## Skills

<b>Programming Languages</b>	C/C++, Python, PHP, HTML, CSS, JavaScript
<b>Database</b>	SQL, SQLite
<b>Frameworks/Libraries</b>	NumPy, Pandas, Matplotlib, Tensorflow
<b>Software/ Tool/ OS</b>	GitHub, Linux(Ubuntu), MS Office
<b>Competitive Programming</b>	Codechef, Codeforces
<b>Machine Learning</b>	Regression, Neural Networks, Convolutional Neural Networks
<b>Others</b>	OOP, Financial Markets, Macroeconomics, Social Networking, Case Study, Cryptography

## Internships

### Undergraduate Research, Machine Learning Lab

IIT Ropar, India

DR. BALWINDER SODHI

May 2019 - July 2019

- Researched on ways to streamline admission process for Post-Graduate and Ph.D admissions to IITs by analysing data from previous applications.
- Developed a real time web portal for handling all the queries from both sides(i.e. students and professors). **Reference Letter**

## Projects

### Effect of News on Markets

IIT Ropar, India

DR. BHAVESH GARG

Mar 2020 - Present

- Collecting the Newspaper data of the past years and applying Python libraries to run a sentiment analysis.
- Using Machine Learning to determine the relation between news sentiments and market fluctuations.

### Project Eye

IIT Ropar, India

TINKERING LAB

Jan 2020 - Present

- Using Ultra Violet and Infrared sensors to detects the presence of object and its temperature and alerting the person accordingly.
- Using Computer Vision and Machine learning to classify obstacles for differently able citizens with Jetson Nano. : **Github**

### Other Projects

SELF

2020

- Handwritten digits classification using Tensorflow : **Github**
- Database Management System for Music Player using SQLite : **Github**
- Earnings prediction with Tensorflow : **Github**
- SQLite database from Python for Student-Professon-Course-Department Management : **Github**
- Smile Detection with Keras : **Github**
- Library Book Database Management System with SQLite : **Github**
- Developing website for Non-Core vertical of CDCRC (Under Construction) : **Github**

## Certifications

<b>Coursera</b>	Machine Learning, Deep Learning, Web Data with Python, SQLite with Python, Amazon Web Service, Financial Markets, Trading Basics, Cryptography
<b>NPTEL</b>	Discrete Mathematics

## Position of Responsibility

2018-Pre	<b>Enactus</b> , Vice President	Ropar
2019-Pre	<b>T &amp; P Cell</b> , Training and Placement Cell Representative	Ropar
2018,19,20	<b>Fests</b> , Lifestyle Events & Sponsorship in Zeitgeist 2018, Exhibition in Advitiya 2019, Guest Talks in Advitiya 2020	Ropar

## Miscellaneous

2016-17	<b>KVPY Scholar</b> , Secured <b>AIR 609 in KVPY 2016-17</b> SA Stream
2019	<b>Writer</b> , Article writer for <b>Virtual Hunt Global Services Pvt. Ltd.</b>
2018-20	<b>Member</b> , <b>National Social Service</b>
2019	<b>II Position</b> , Inter College <b>Intellectual Property Rights Quiz</b>
2019	<b>Volunteer</b> , Teacher in <b>Pehchaan NGO</b>
2020	<b>Completed</b> , Google Foobar 2020 Challenge
2020	<b>Convener</b> , Planned, managed and conducted Virtual Alumni Meets with alumni from different industries