

# Harsh Mittal

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## Education

### Indian Institute of Technology Ropar

B.TECH IN ELECTRICAL ENGINEERING : 8.40 / 10

Punjab, India

July 2018 - May 2022(Expected)

- **Courses** : Introduction to Computing and Data Structures, Algorithms and Data Structures, Calculus, Linear Algebra, Discrete Mathematics, Operating Systems, Differential Calculus, Digital Logic Design, Signals and Systems, Professional Communication, Probability & Stochastic, Micro & Macro Economics, Deep Learning\*, Financial Markets\*, Cryptography\*, DBMS

### Central Board of Secondary Education

INTERMEDIATE : 89.8%

MATRICULATION : 10/10

2018

## Skills

<b>Programming Languages</b>	C/C++, Python, HTML, CSS
<b>Development</b>	OOP*, Operating Systems*, DBMS*
<b>Frameworks/Libraries</b>	NumPy, Matplotlib, Tensorflow
<b>Software/ Tool/ OS</b>	GitHub, Linux(Ubuntu), MS Office
<b>Competitive Programming</b>	Candidate Master on <b>Codeforces</b>
<b>Others</b>	Machine Learning, Financial Markets, Macroeconomics Case Study, Cryptography*

## Internships

### Ketto - Asia's Largest Crowd Funding Platform

Mumbai - Work From Home

MAHENDRA NAKAR, VP - TECH

July 2020 - Sept 2020

- Using Natural Language Processing Techniques to predict the success of a campaign.
- Developing model to suggest changes in the story to increase the expected revenue. It's predicted to increase the revenue by 4.3%.

### Undergraduate Research, Machine Learning Lab

DR. BALWINDER SODHI

IIT Ropar, India

May 2019 - July 2019

- Researched ways to streamline the 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). My work was more focused on Front-End.

## Projects

### Effect of News on Markets

DR. BHAVESH GARG

Feb 2021 - 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

TINKERING LAB

Mar 2020 - May 2020

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

## Other Projects

SELF

- Implemented code for Minimum Cost Arborescence with C++
- Database Management System for Music Player using SQLite
- Earnings prediction with Tensorflow
- SQLite database from Python for Student-Professon-Course-Department Management
- Smile Detection with Keras
- Library Book Database Management System with SQLite
- Developing website for Non-Core vertical of CDCRC (Under Construction)

## Positions of Responsibility

2018-Pre **Vice President**, Enactus IIT Ropar - Responsible for Team Management, Corporate Relations, etc.

2019-Pre **Representative**, Training & Placement Cell - Responsible for inviting Companies and Alumni Activities.

2018,19,20 **Convener**, College Fests - Lifestyle Events & Sponsorship in Zeitgeist 2018, Exhibition in Advitiya 2019, Guest Talks in Advitiya 2020

## Miscellaneous

2016-17 **KVPY Scholar**, Secured AIR 609 in KVPY 2016-17

2020 **Foobar 2020**, Completed Google **Foobar 2020 Challenge**

2020 **Codeforces**, Got World Rank 101 in **Codeforces Round 662**

2020 **Google Kick Start**, International Rank of 1402

2018-20 **Finance & Economics Club**, Senior Member of Club, Represented Club in various competitions.

2019 **IPR Quiz**, First Runner-up in Inter College Intellectual Property Rights Quiz

2019 **Business Modelling**, Won medals in many inter college competitions. Participated in Inter IIT Tech Meet

2019 **Writing**, Article writer for Virtual Hunt Global Services Pvt. Ltd.

2018-20 **Social Service**, Member of National Social Scheme

2019 **Pehchaan**, Volunteered as teacher for Pehchaan NGO

2020 **Alumni Activities**, Convener of Alumni Sessions from various backgrounds.