

# 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

### Faculty Leave and Projects Management

DR. VISHWANATH GUNTURI

Mar 2021 - April 2021

- Developed a Portal to manage the leave and applications filed by Faculties
- Took care of budgets, constraints. Implement the complete Back-End, Front-End and DBMS. : **GitHub**

### 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.