Harsh **Mittal**

SOPHOMORE · IIT ROPAR

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Education

IIT ROPAR (Indian Institute of Technology Ropar)   *Punjab, India*

B.Tech in Electrical Engineering : 8.19 / 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

Programming Languages	C/C++, Python, PHP
Web Dev	HTML5, CSS, JavaScript, Bootstrap
Frameworks/Libraries	NumPy, Pandas, Matplotlib, Tensorflow
Software/ Tool/ OS	GitHub, Linux(Ubuntu), MS Office, SQLite
Competitive Programming	**Codechef**, **Codeforces**
Machine Learning	Regression, Neural Networks, Convolutional Neural Networks
Others	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.

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

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

Position of Responsibility

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

Miscellaneous

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