

# Hersh Dhillon

FINAL YEAR COMPUTER SCIENCE UNDERGRAD • INDIAN INSTITUTE OF TECHNOLOGY ROPAR

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## Education

### Indian Institute of Technology, Ropar

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Punjab, India

Aug. 2017 - Exp. May 2021

- Current CGPA :- **9.2/10** | Received Merit scholarship awarded to **top 7 %** students in the batch, for six semesters in a row

### Delhi Public School R.K. Puram

HIGHER SECONDARY EDUCATION, CBSE BOARD

New Delhi, India

Apr. 2010 - Mar. 2017

- Intermediate (Class 12) :- **96 %** | Matriculation (Class 10) :- CGPA :- **10/10**

## Courses and Skills

- **CS Courses** • OS • Databases • Computer Vision • Networks • Theory of Computation • Software Engineering • Machine Learning • Data Structures and Algorithms • Programming Paradigms • Digital Design • Computer Architecture
- **Math Courses** • Calculus • Linear Algebra • Differential Equations • Probability and Statistics • Discrete Mathematics
- **Languages** • C • C++ • Python • Java(Intermediate) • HTML • JavaScript(ReactJS) • Dart(for Flutter)
- **Libraries/Framework/OS** • ReactJS • Django • PostgreSQL • Pytorch • Tensorflow • Pandas • Matplotlib • NumPy • Sklearn • Android Studio • Flutter • Anaconda • Linux( Ubuntu) • Git

## Work Experience

### Forms Annotation Gadget

SUMMER INTERN, D.E SHAW GROUP

ReactJS, Java

Apr 2020 - May 2020

- Built a **Rich Text Editor Component** to be used as a Forms Annotation Gadget. Persisted the files using a File store service

### Answering product related queries using Collaborative Adversarial Networks(CAN's)<sup>[LINK]</sup>

Pytorch, NLTK, Python

SUMMER INTERN, GUIDE:- DR.PAWAN GOYAL, CNERG LAB INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

May 2019 - July 2019

- Implementation of the CAN architecture proposed by Chen et al (ACM - 2019), a novel method to detect sentence similarity using an **ensemble of sentence representation methods using LSTM's and adversarial networks and its application in answering product-specification queries in e-commerce websites**

## Projects

### Characterizing Job Hirability using Personality and Behaviour<sup>[LINK]</sup>

Pytorch, NLTK, Scikit-Learn

SUBMITTED TO ACM ICMI CONFERENCE

Jan. 2020 - Jun. 2020 (BTP 1)

- Proposed a **two step Hirability procedure using OCEAN personality traits** instead of a one step end to end approach
- We also explored and explained the importance of various cues obtained using ML and DL techniques **for Textual, Audio and Visual modalities**

### RISC-V ISA Simulator<sup>[LINK]</sup>

C++

FINAL COURSE PROJECT: COMPUTER ARCHITECTURE

Mar. 2019 - Apr.2020

- Designed and Developed a **simulator for the RISC-V Instruction Set Architecture** with pipelines with data forwarding, data and instruction caches to simulate parallel behaviour

### Miscellaneous Projects

Flutter, Python, Tensorflow, Js etc.

OTHER PROJECTS TAKEN UP INDEPENDENTLY OR AS A PART OF A COURSE

Jan. 2018 - July 2019

- **CoronaMap: Created a Live Covid-19 tracking and visualization website.** <sup>[LINK]</sup>
- **Cognia:** Developed a prototype of an app for dementia patients. The App serves several purposes like, **keep the brain active using cognition games and also serve as a way to collect data on such standard games for medical science purposes.** <sup>[LINK]</sup>
- Got rank 124 out of 6700 teams in the Flipkart ML Grid Challenge. (Object Localization Task)

## POR's and Other Achievements

2018- **Co-Founder and current Mentor**, Debating Society

IIT Ropar

2018-19 **Coordinator**, Coding Club

IIT Ropar

2017 **All India Rank 232**, out of 0.3 million candidates in **KVPY 2016**

2017 **All India Rank 1760**, **JEE Advanced**

2018 **Runners-up**, Annual Dr. D.R. Memorial National Debate

PCTE Ludhiana