

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 • Keras • Pandas • Matplotlib • NumPy • Sklearn • NLTK • Android Studio • 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)

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

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

C++

FINAL COURSE PROJECT OF CS-204(COMPUTER ARCHITECTURE)

Feb. 2019 - Apr. 2019

- **Designed and Developed a simulator** for the RISC-V Instruction Set Architecture. We further designed **pipelines with data forwarding, data and instruction caches to simulate parallel behaviour. C++ was used for the backend** of the simulator

Miscellaneous Projects

C++, Python, Tensorflow, Myo etc.

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

Jan. 2018 - July 2019

- Worked on **Wearable Authentication using the Myo Armband under the supervision of Dr. Puneet Goyal, IIT Ropar**
- **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

2016 **Gold Medal**, for acadimice excellence

D.P.S.R.K. Puram

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