Hersh **Dhillon**

FINAL YEAR COMPUTER SCIENCE UNDERGRAD · INDIAN INSTITUTE OF TECHNOLOGY ROPAR

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Education

Indian Institute of Technology, Ropar   *Punjab, India*
B.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *Aug. 2017 - Exp. May 2021*
- Current CGPA :- **9.17/10** │ Received Merit scholarship awarded to **top 7 %** students in the batch, for seven semesters in a row

Delhi Public School R.K. Puram   *New Delhi, India*
HIGHER SECONDARY EDUCATION, CBSE BOARD   *Apr. 2010 - Mar. 2017*
- Intermediate **(Class 12) :- 96 %** │ Matriculation **(Class 10) :- CGPA :- 10/10**

Work Experience

OpenMined [LINK]   *Python, Spacy, Pytorch*
TEAM NLP CORE DEV: SYFERTEXT   *Jun. 2020 - Present*
- **Active Contributor and Team NLP Member of OpenMined's SyferText**, a Federated Learning library for NLP built on top of PySyft
- Also working as a **technical mentor for the Private AI course series**, responsibilities include doubt solving and grading projects

Infurnia [LINK]   *C++, MFC, Vulkan*
SOFTWARE ENGINEERING INTERN   *Jan. 2021 - Present*
- Developing Infurnia's **desktop application from scratch.** Involves building UI components and integrating in-house graphics engines

D. E. Shaw Group [LINK]   *ReactJS, Java*
SOFTWARE DEVELOPMENT INTERN   *Apr 2020 - May 2020*
- Built a **Rich Text Editor Component** to be used as a **Forms Annotation Gadget**. Persisted the files using a custom File store service

CNERG Lab Indian Institute of Technology, Kharagpur [LINK]   *Pytorch, NLTk, Python*
SUMMER RESEARCH INTERN, GUIDE:- DR.PAWAN GOYAL   *May 2019 - July 2019*
- Implementation of the **CAN (Chen et al ACM-2019) and its application in answering product queries in e-commerce websites**

Projects

Characterizing Job Hirability using Personality and Behaviour [LINK]   *Pytorch, NLTk, Scikit-Learn, Python*
SUBMITTED TO IEEE ACCESS JOURNAL   *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
- Using **Explainable AI methods, we understand how such hiring systems work and what cues the look for in candidates** .

Miscellaneous Projects   *Flutter, Python, Tensorflow, JS, C++*
OTHER PROJECTS TAKEN UP INDEPENDENTLY OR AS A PART OF A COURSE   *Jan. 2018 - Present*
- **CoronaMap: Created a Live Covid-19 tracking and visualization website.** [LINK]
- **Simulator for the RISC-V ISA** with pipelines for data forwarding, data and instruction caches to simulate parallel behaviour [LINK]
- **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.** [LINK]
- **Got rank 124 out of 6700 teams in the Flipkart ML Grid Challenge.** (Object Localization Task) [LINK]

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
- **Languages**   • C • C++ • Python • Java(Intermediate) • HTML • JavaScript(ReactJS) • Dart(for Flutter)
- **Libraries/Framework/OS**   • ReactJS • Django • PostGreSQL • MFC • Pytorch • Tensorflow • Pandas • Matplotlib • NumPy • Sklearn • Android Studio • Flutter • Anaconda • Linux(Ubuntu) • Git

POR's and Other Achievements

2017	**All India Rank 232,** out of 0.3 million candidates in **KVPY 2016**	
2017	**All India Rank 1760, JEE Advanced**	
2019-20	**Core Team Member,** Student AI community	*IIT Ropar*
2018-20	**Co-Founder and former Mentor,** Debating Society	*IIT Ropar*