Hersh **Dhillon**

SDE 1 AT FLIPKART · B.TECH COMPUTER SCIENCE 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 - May 2021*

- Current CGPA :- **9.17/10** | Received Merit scholarship awarded to **top 7 %** students in the batch, for eight 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

Flipkart [LINK]   *Cloud, Python, Linux, Ansible*

SOFTWARE ENGINEER I, IaaS, CENTRAL PLATFORMS GROUP (CPG)   *Jun. 2021 - Present*

- **New Feature:** Currently working on **integrating Infra Management and Issue Tracking solutions** to existing Data Center Management stack
- **Improvements:** Handled **high severity and on-call issues**: **security bugs requiring changing Auth stack** and backup service downtime.

Infurnia [LINK]   *C++, MFC, Vulkan, Cairo*

SOFTWARE ENGINEERING INTERN, APPLICATIONS TEAM   *Jan. 2021 - Jun. 2021*

- Built the **Desktop Design Application** from scratch. **Created and integrated custom graphics engines** made in Vulkan and Cairo.
- **Found and squashed a critical memory leak causing downtime** and **replicated the modern web feel** to ensure a uniform experience.

OpenMined [LINK]   *Python, Spacy, Pytorch*

TEAM NLP CORE DEV: SYFERTEXT, OPEN-SOURCE   *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 worked as a **technical mentor for the Private AI course series**, responsibilities include doubt solving and grading projects

D. E. Shaw Group [LINK]   *ReactJS, Java*

SOFTWARE DEVELOPMENT INTERN   *Apr 2020 - May 2020*

- **New Feature:** Built and integrated **Rich Text Editor Component** to **Live Design**. Persisted the files using a custom File store service

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 traits** and show it to be 6% better for continuous and 2% better for regressive targets
- We **leverage the psychological literature for OCEAN and Explainable AI methods** to get insights into the cues these systems look for.

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. which solves **cognition tracking and Wandering problems** of patients [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**	
2017	**All India Rank 1760,** out of 1.3 million candidates **JEE Advanced 2017**	
2019-20	**Core Team Member,** Student AI community	*IIT Ropar*
2018-20	**Co-Founder and former Mentor,** Debating Society	*IIT Ropar*