

PULKIT ARORA

Pronouns: He/Him/His

+1 (619) 917-5954 | pulkitarora22@gmail.com | [arora-pulkit.github.io](https://github.com/arora-pulkit)

EDUCATION

MS in CS, UC San Diego

Sept'21 - Present

Starting Fall 21. Currently enrolled in - Probabilistic Reasoning and Learning, Algorithm Design and Analysis & Statistical Methods in Bioinformatics.

B. Tech in Computer Sc Engineering, PEC Chandigarh

Aug'13 - May'17

CGPA - 9.7/10, Rank 1

Projects:

- Co-authored a [paper](#) during the final year of college where I used different **ML classification techniques** to achieve the highest accuracy in binary classification of stance data
- Explored statistical methods in **R** to analyse fMRI images at Indian Institute of Technology, Delhi during the summer of 2015
- Created a web app where the user draws a weighted graph and the result is a minimum cost spanning tree based on Prim's algorithm as part of the Algorithms course
- Built a conversational chat application that allowed group chats and file sharing

PROFESSIONAL EXPERIENCE

Goldman Sachs, Bengaluru (Associate)

Nov'19 - Aug'21

1. *Global Transactional Workflow* - automated the processing of thousands of stocks per day declared by traders as part of large index orders in GS accounts

Responsibility:

- Implemented core logic that adds trades to GS books, written in the firm's proprietary scripting language called Slang, leveraging **MongoDB** as data-store
- Wrote the algorithm to find any breaks in the core logic and reconcile data in **Python**

2. *Data Extraction for Reporting* - tech stack for Client Reporting team in Java using MongoDB as the datastore

Responsibility:

- Built a regression environment to ensure change releases have minimal impact
- Wrote a Restful service in **Java** to expose reporting data extracted in Mongo
- Wrote automated batch workflows & scripts in shell and Slang (a python-like scripting language at GS) to extract reporting data based on stocks traded by clients on a given day

American Express, Gurgaon (Engineer II)

Jul'17 - Nov'19

1. *Risk Management Platform* - identify data anomalies across various internal processes of the company as well as external data, thereby proactively helping prevent a bad customer experience and mitigating risk

Responsibility:

- Trained a model to predict and alert if an Amex's debtor's credit worthiness might be impacted based on articles being written about them in news
- Implemented controllers, services, repositories and Rest APIs to cater to the business logic
- Improved consistency by implementing a locking mechanism to prevent race condition which used to cause duplication of database entities
- Developed a pipeline that converted a process which aggregated data on the fly by storing the aggregates resulting in a decrease of 40% downstream processing time

2. *eHRMS (enterprise Hiring Management System)* - a Python project to filter CVs for a job position in increasing order of relevance

Responsibility:

- Used NLP techniques to extract features as structured data from CVs
- Trained a model on CVs of candidates that successfully converted their interviews to offers previously
- Recommendation model to rank and sort candidates based on job description
- Built the Rest APIs and developed the UI screens to consume them

AWARDS

- Gold medal for ranking first in the undergraduate class of 2017
- Silver medal for the best final year project in CSE class of 2017
- Awarded 100% tuition waiver in undergraduate college for 2 years

VOLUNTEER WORK

- Taught science and math to underprivileged school students as part of an NGO called Junior Einstein for 4 years. Also served as the NGO's *Joint Secretary* during 2016-17
- Member - Diversity & Inclusion Technology India Chapter, American Express
- Member - LGBTQ+ Network, Goldman Sachs

OTHERS

- **Languages:** English, Hindi, Punjabi and French (elementary)
- **Programming Languages & Skills:** Python, Java, ML, HBase, Spark, MongoDB, HTML/CSS, Spring Boot