

Harsh Arora

www.harsharora.ml | 1311 Urban Estate Ph. I, Jalandhar | harsh@cmi.ac.in | +91 80546 21403 | github.com/harsharora21

EDUCATION

Chennai Mathematical Institute – Bachelors in Computer Science and Mathematics

Expected Graduation: August 2022 | Shri Ram Scholar – 100% Scholarship for 3 Years

Relevant Courses: Programming in Haskell, Advanced Programming in Python, Real Analysis, Probability, Design and Analysis of Algorithms (current), Theory of Computation (current)

SKILLS

Languages: C++, Python, C, Java, Haskell, SQL, MATLAB, Bash, HTML/CSS

Frameworks & Technologies: Pandas, Flask, TensorFlow, Keras, Numpy, Matplotlib, Linux

WORK EXPERIENCE

Coriolis Technologies, Pune, Maharashtra — Software Developer Intern

May 2020 - July 2020

- Collected options open interest data for **Nifty Index** using a custom web scraper designed using PyAutoGUI. Cleaned, combined and converted the data into CSV format for data modelling.
- Used different machine learning models like XGBoost, Artificial Neural Networks, Convolutional Neural Networks, LSTMs. Combined all outputs from the models and compared them.
- Calibrated multiple parameters to produce optimal results. Analysed data from all the models.

ACHIEVEMENTS

International Olympiad in Informatics (IOI) Training Camp

Attended India's most selective preliminary IOI camp. Ranked 13/30 in programming contests.

Asia Pacific Informatics Olympiad (APIO)

Represented the Indian team at the 2019 Asia Pacific Informatics Olympiad (APIO).

IIT Kharagpur ICPC Regionals

Represented CMI at the ACM-ICPC IIT Kharagpur Regionals. Ranked 35 out of 100 teams in contests.

PROJECTS

Covidplasma.in: Full-stack app with an integrated API made in Flask that connects COVID-19 patients to recovered donors for plasma therapy — currently serving as one of India's largest donor-patient matching dashboard and information hub.

URL Shortener: URL shortening service written in Flask, that uses a custom hashing protocol and dynamic routing using key-value pairs in a NoSQL database to prevent hash collisions.