

EDUCATION

Boston University

Master of Science in Computer Science; GPA: 3.75/4

Boston, MA

Expected May, 2021

Netaji Subhas Institute of Technology

Bachelor of Engineering in Biotechnology; GPA: 7.6/10

Delhi, India

2015-2019

SKILLS

Languages: Python, Javascript, C++, Matlab

Frameworks: Node.js, Express.js, Tensorflow, keras, Laravel, ReactNative, Matplotlib, Pandas

Database: SQL, MongoDB

Technologies: git, Android Studio, Docker, Linux, OpenCV, WebSocket, RESTful API

EXPERIENCE

Optimal Lab, BU

Research Assistant

Boston, MA

June, 2020 - Present

- Designed **simple unit tests** to compare the robustness and performance of implementation of different **optimizers** as compared to **SGD** available in pytorch library.

BU Spark!

Innovation Fellow (**Backend Engineer, NextChange**)

Boston, MA

February, 2020 - May, 2020

- Built the data pipeline engine for collection and processing of **raw trading data, candlestick data**(for different time intervals) from major crypto exchanges like binance, krakken etc using **websockets in python**.
- Created a REST API for **accessing data via queries** using node.js, and created a server for providing **real-time price updates** to clients via js websockets.

LeanTrack

Lead Strategist

New Delhi, India

September 2017 - January 2019

- Provided advisory services for **over 20 early stage startups** and helped build their tech platforms, connect to investors and generate profits using a **data driven approach**.
- Researched, developed and automated the **LSAAT(startup ability assessment tool)** model to rate startups.
- Created **Rest API and Deployed micro services** using Express.js and docker containers in Nginx for hosting **trained models, Payment Gateway and Email Automation**.

PROJECTS

- Cats vs Dogs** Active Learning for Efficient Labelling of Image Data
 - Used **Adaboost algorithm** to train many **weak learners(shallow NN)** using active learning to label images containing cats and dogs, producing results close to a **baseline CNN** using just **41% of the training data**.
- Microscopy Image Super Resolution** Undergrad Research@NSIT
 - Proposed changes in the architecture for **Super resolution GAN** model for improving the quality of SR images. Built an **end-to-end web portal** for transferring images via the camera to one's computer using websockets.
- Task scheduler**
 - A javascript based **debuggable CPU scheduler** which simulates different OS preemptive scheduling algorithms such as **Round Robin, Rate Monotonic and Earliest deadline**.

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Got recognised as an innovative product by Bose in **Boston Hacks, 2019**.
- Acting as Technical Head of **Ecell, NSIT**, mentored 50+ students for technical skill development and lead a team of 5 devs for developing eccl website.
- Started an Initiative **For Her**, to promote female entrepreneurship in India and incubated 5 female led early stage startups.