Parminder Singh

Data Scientist and Full Stack Engineer

393 Sector 80
Mohali, Punjab
India
(+91) 9417763589
Website: http://trion.me
Github: [Trion129](#)

EXPERIENCE

Freelance, Remote — *Data Scientist*

MAY 2017 - PRESENT

- Implemented Recency-Frequency-Monetary analysis script to classify telecom users as churn or important.
- Corrected a fraud detection algorithm by fixing the algorithm's data preprocessing.
- Implemented estimator for student performance using Bayesian Knowledge Tracing and detection of similar courses based on GPA trend by doing PCA on data.

Creatella, Remote — *Front End Engineer*

JUNE 2016 - MAY 2017

- Implemented service worker for data caching and web push notifications for faster load and increasing user engagement.
- Brainstormed and implemented complete message flow of chat and notifications on front end using Laravel Echo and Push notifications.
- Created input validation plugin for forms using jQuery and Regex. It ensured user quality throughout app.
- These features helped the app get a hockey stick in the user growth as users went from 100 to 2000 within a month.

PROJECTS

Slack N Study — *Slack bot for managing private groups*

[Splash Page](#)

Created Slack slash command bot using Node.js and Slack API. It helps the cohort members search for private groups and join them with easy to use commands. This makes finding people with same goals a lot easier.

ChinguSort — *ML algorithm to sort people according to skills*

[Article](#)

Implemented Python script using K Means clustering to group people in groups based on the survey inputs. These groups are then appended to old cohorts or used to make new cohorts. This process took previously a week to do by hands, now done in seconds by the script.

ChuzzleHunt — *An yearly puzzle event*

[Link](#)

Inspired by Python Challenge, Chuzzle Hunt was a remote event in chingu cohorts with small challenges that had to be completed to unlock a video of cohort members saying Happy New Year in their native languages. It will return this year too :-)

SKILLS

Algorithm and system designing

Data analysis and generation

Machine Learning Frameworks like Tensorflow, Scikit learn and Keras

MongoDB, ExpressJS, React, Node.JS (MERN) Stack expertise

Progressive Web Apps and Experimental Web APIs like Web Push Notifications

Achievements

Accelerated applicant sorting at Chingu Cohorts using ChinguSort, 300+ applicants sorted and formatted into a nice excel sheet in 5 seconds!

Leading the data science cohort of 40+ members and helping them grow by hosting build-to-learn projects and pair programming.

Featured as runner's up in Siraj Raval's [video](#) for implementing Adaptive Momentum Gradient Descent, Momentum Gradient Descent and Stochastic Gradient Descent from scratch in Python