

# Parminder Singh

Data Scientist and Full Stack Engineer

parmsingh129@gmail.com  
(+91) 941 776 3589

**Website:** <http://trion.me>

**Github:** Trion129

**Medium:** @trion

## EXPERIENCE

### **Chingu Cohorts**, Remote — *Data Scientist and Cohort Leader*

2 YEARS

- Implemented tools for sorting, classification and detection of applicants for maintaining best quality of community.
- Implemented Sentiment, Clustering and RFE analysis for detecting churn and productive behaviours via application surveys and team discussions.
- Used Scikit learn and NLTK for machine learning and Pandas for managing data being worked on.
- Led to a rapid increase in productivity of community as the inactive team members decreased by 80% and the members that disappeared suddenly were retrieved back beforehand.

### **Freelance**, Remote — *Data Scientist*

6 MONTHS

- Implemented python script for telecom industry client to perform RFM analysis to classify users as 8 classes.
- Implemented estimator for student performance using Bayesian Knowledge Tracing and performed detection of courses with similar trends in GPA by doing PCA and Clustering analysis on data.

## PROJECTS

### **Sorting Hat** — *ML tool to sort applicants according to skills*

- Implemented python script using Scikit Learn to group people based on the survey inputs.
- This process previously took a week to do by hands i.e. matching skills of various members and then adding them to cohorts.
- This tool solved the problem by using Clustering analysis to find similar people so that they can be organised easily.
- It sorted 500+ members, when cohorts were rebooted, within seconds. Accelerating the applicant joining process to 50 times faster.

### **Chingu Lasso** — *ML tool to detect unreliable team members*

- Implemented Python script with completely automated design with ability to scrape Slack API to retrieve messages, read backup message histories.
- It uses the scraped data to analyse the members of the team on basis of Recency, Frequency and Sentiment.
- A detailed Excel report is output that allows team managers to take action and use Lasso to reorganise team easily.
- Implemented with Scikit Learn for Clustering algorithms, NLTK for sentiment analysis.

## Skills

Algorithm and System designing

Data analysis and Pseudo-data generation strategies

Machine Learning algorithms

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

Progressive Web Apps and Experimental Web APIs e.g. Web Push Notifications and WebGL

## Achievements

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

## Courses

### **Machine Learning A-Z - Udemy**

Hands on experience of working with R and Python for Machine Learning tasks.

### **Computational Thinking and Data Science - MITx**

Implemented algorithms in Python to solve problem sets based on data interpretation

### **Artificial Intelligence for Robotics - Udacity**

Implemented various localization filters in Python from scratch that are used in self driving cars to understand its location.