

# Parminder Singh

Data Scientist and Full Stack Engineer

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## EXPERIENCE

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

DECEMBER 2016 - PRESENT

- Implemented tools for sorting, classification and detection of applicants for various purposes for maintaining best quality of community. Used Scikit learn and nltk for the Machine Learning and Pandas for managing data being worked on.
- Implemented sentiment, clustering and RFE analysis for detecting churn and productive behaviours via application surveys and team discussions.
- 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*

MAY 2017 - PRESENT

- Implemented Recency-Frequency-Monetary analysis script to classify telecom users as churn or important.
- Implemented estimator for student performance using Bayesian Knowledge Tracing and 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 took previously a week to do by hands, matching skills of various members and then adding 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 generation

Machine Learning

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

Progressive Web Apps and Experimental Web APIs like Web Push Notifications

## 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.