

PRATEEK CHANDA

A Computer Science Undergraduate

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EXPERIENCE

Summer Research Internship

Complex Network Research Lab, IIT Kharagpur

May 2017 – June 2017

IIT Kharagpur, India

- Worked on data mining project using the **Student Life DataSet**
- Implemented clustering algorithms to check users forming groups based on sensor data like wifi-index and audio-level.
- Implemented classifiers to infer about student group behavior over time.

Open Source Contributor

SunPy, Solar Physics using Python

Dec 2016 – Present

- Worked with a team on contributing to this solar physics software, initially started by scientists at the NASA Goddard Space Flight Center, to display solar data from observatories and predicting solar flares, electron flux.
- Worked on improving the AIA plots and changing the coordinate transformations.
- Currently working on MGN algorithm for image processing of solar AIA plots.

Open Source Summer Internship

Bountiful Open Source Summer

25th May – 15th August

- Worked on projects on apps, desktop applications using mainly Javascript and Node.js
- Added windows support to clix - An easy to use clipboard manager made using tkinter based on Linux.
- Wrote tests for oneauth-example-android - a sample app that demonstrate login from android client.
- Currently within top 0.2 percentile in this internship.

PROJECTS

Congestion Reduced Routing in WDM Networks - Academic Project

- Implemented Routing algorithm in WDM optical networks to reduce congestion of links and ensure fast and secure data transfer operations.

Document Topic Clustering

- Implemented a new dynamic graph clustering algorithm based on cosine similarity.

Titanic Survival Exploration

- Created decision functions that attempt to predict survival outcomes from the 1912 Titanic disaster based on each passenger's features, such as sex and age.

Boston Housing

- Implemented different feature extraction methods and worked on classifiers to increase the accuracy of predicting Boston House prices.

ACHIEVEMENTS

- **Awarded RISE Conference 2017 Grant** - Got selected within top 1000 open source developers to attend this conference at Hong Kong, 2017.
- **Google Developers:Solve for India** - Got selected to attend conference by Google Developers on Firebase, Android Frameworks, Google Cloud Platform and Machine Learning.
- Among top 100 students in Science Olympiad Foundation (SOF) and International Mathematics Olympiad (IMO) and among top 3 students in our school.
- Earned rank within top 0.8 percent in ProjectEuler.

VOLUNTEERING

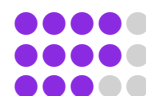
- **Open Source Head** of college programming club - Guiding sophomores and teaching them programming and open source.
- **Code.org** - Worked as a mentor for students in India on computer science fundamentals.
- Served as **Event Manager** for **TedxIIEST Shibpur 2016**.
- Currently serving **GeeksforGeeks Campus ambassador**.

SKILLS

Python

C++

Java



EDUCATION

B.Tech in Computer Science

Indian Institute of Engineering Science and Technology, Shibpur

July 2015 – Present

GPA = 8.77 out of 10

School

South Point High School

Sept 1998 – Jan 2015

- **Higher Secondary (10 +2): 94%**
- **Madhyamik Examination: 89.5%**