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 of PhD students of University of Sheffield, UCL and NASA scientists on building this solar physics software 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.
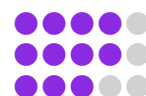
VOLUNTEERING

- **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 as **Github Campus Expert** and **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%**