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. - Internship Report

Open Source Contributor
SunPy , Solar Physics using Python - Research Paper

📅 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.
- Got acknowledged for my research work along with the SunPy community and researchers at NASA.

Open Source Summer Internship
Bountiful Open Source Summer - Within Top 10

📅 25th May – 15th August

- Worked on projects on apps, desktop applications using mainly Javascript and Node.js
- Wrote tests for oneauth-example-android - a sample app that demonstrate login from android client.

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 - Academic Project
- Implemented a new dynamic graph clustering algorithm based on cosine similarity among documents in the newsgroup20 dataset.

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.

Machine Learning with Solar Data
- Analyzing solar data collected from different solar observatories and implement classification algorithms to classify sunspots based on complexity.
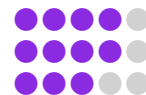
ACHIEVEMENTS

- **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.

VOLUNTEERING

- **Open Source Head** of college programming club - Guiding sophomores and teaching them programming and open source.
- **Mentor for Open Source Projects**- Mentored students for open source projects during Hacktoberfest and 24PullRequests.
- **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%**