SUSHOBHANA PATRA

UNDERGRADUATE STUDENT

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EXPERIENCE

Google Summer Of Code — *Student Software Developer*

APRIL 2018 - AUGUST 2018

Under **Dr. Adam G. Ginsburg**, National Radio Astronomy Observatory, New Mexico and **Dr. Miguel de Val-Borro**, NASA Goddard Flight Center.

Incorporating CRTF and FITS Region formats and improving astropy/regions.

SKILLS

Proficient in C, C++, Python, Linux
New to Java, Javascript, HTML, oracle, sqlite
Libraries: Flask, sphinx, pytest, regex, numpy, jquery.

EDUCATION

DR. B.R. Ambedkar National Institute Of Technology, Jalandhar
Bachelors Of Technology, Computer Science and Engineering

JULY 2016 - JUNE 2020 (5th Semester ongoing)

Sri Chaitanya Techno School, Visakhapatnam
Senior Secondary High School, CBSE

APRIL 2014 - APRIL 2016 (95.8%, secured 6th in city)

Achievements

- Cracked the most competitive open source coding program, Google Summer of Code
- 3 stars on codechef
- Cracked both JEE mains (8629) and Advanced

PROJECTS

Astropy-Regions — *Core Contributor.*

github.com/astropy/regions

An open-source astronomy package affiliated to astropy which handles regions on pixel as well celestial coordinate system with file formats.

Worked on CRTF , CASA Region Text Format and FITS (Flexible Image Transport System) Region Table and improved the architecture of the package.

Spectral-cubes — *Contributor*

github.com/radio-astro-tools/spectral-cube

It provides an easy way to read, manipulate, analyze, and write data cubes with two positional dimensions and one spectral dimension.

Worked on integrating astropy/regions , handling extraction of spectral dimension and replacing pyregions.

Astropy — *Contributor*
github.com/astropy/astropy

One of the biggest collaborations of astronomers in open source tools for data and image processing.