

SANKET AJAY MUNISHWAR

Python Developer, Data Analyst

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EDUCATION

Sanjuba High School, Nagpur, Maharashtra
10th

St. Paul Junior College, Nagpur, Maharashtra
11th-12th

Indian Institute Of Science Education And Research, Tirupati
BS-MS (Integrated Master's in Science, 5 year course), Physics major

ACADEMIC PERFORMANCE

Matriculation, 2016: 95.60%

Intermediate, 2018: 89.38%

BS-MS, 2023: Cumulative GPA: 8.1 out of 10 ([BS](#), [MS](#))

[Click here](#) to see the list of courses that I have taken at IISER Tirupati and also the grades obtained in those courses.

COMPUTER SKILLS

Programming: Python, C++, ROOT Framework, Basics of data science, Linux, Javascript, HTML, CSS, Django (Python Web Framework), Parallel Programming in Python (Multiprocessing module)

Software and Packages: Latex, Origin, Matplotlib, Numpy, Pandas, Git, Github

PERSONAL PROJECTS

Personal Portfolio Website

- Built using HTML, CSS
- **Link:** https://sam1300.github.io/sanket_munishwar.github.io/

Data Analysis Problem

- Created a Python script that can check if the courier company has overcharged or undercharged on the delivery of an order and automatically writes the summary of calculations in an Excel sheet.
- **Link:** <https://github.com/SAM1300/Data-Analysis-Problem>

PUBLICATIONS

Prompt sky localization of compact binary sources using meshfree approximation. Lalit Pathak, **Sanket Munishwar**, Amit Reza, Anand Sengupta, <https://arxiv.org/abs/2309.07012> (Current Status: under review)

EXPERIENCE

Protein Master Toolkit: ASSAP (offline)

- Semester Project (four months).
- Supervised by Dr. Hussain Bhukya, INSPIRE Faculty of Biology at IISER Tirupati.
- Built a web platform for the job submission and to display the results of protein sequence analysis. Integrated various protein sequence analysis visualizer.

- **Skills used:** HTML, CSS, Javascript, Django.
- **Link:** <https://github.com/SAM1300/Protein-Master-Toolkit>

Rapid Sky Localization of Electromagnetic Counterparts in GW Astronomy (offline)

- Master's Thesis Project (one year research project).
- Supervised by Prof. Anand Sengupta, Associate Professor of Physics at IIT Gandhinagar.
- Developed rapid parameter estimation method for Gravitational wave data analysis using meshfree approximation. I collaborated with Lalit Pathak (PhD Student at IIT Gandhinagar) and Amit Reza (Scientist, Austrian Academy of Sciences, Austria).
- The method developed in this project is around 50 times faster than the traditional algorithm for parameter estimation.
- **Skills used:** Python, Signal Processing, Linux.
- **Link to thesis:** [Master's Thesis](#)

Statistical Hadronization Model (online)

- Summer Project (Three months)
- Supervised by Prof. Chitrasen Jena, Associate Professor of Physics at IISER Tirupati.
- Analyzed the centrality dependence of chemical freeze-out thermal parameters using the Statistical Hadronization Model (SHM).
- **Skills used:** C++, ROOT Framework (C++ based data analysis framework).
- **Link:** <https://github.com/SAM1300/Statistical-Hadronization-Model>

ACADEMIC ACHIEVEMENT

- Eligible for INSPIRE (Innovation in Science Pursuit for Inspired Research) Fellowship by DST (Department of Science and Technology, Government of India). [Certificate](#)
- Cleared IISER Aptitude test to get admission into IISER Tirupati.

SCIENCE CAMPS AND WORKSHOPS

- Participated in VIJYOSHI CAMP (National Science camp) at IISc Bangalore. [Certificate](#)
- ICTS-TIFR summer school on Numerical Relativity 2023 (online participant).

PERSONAL DETAILS

- Date of Birth: 13/08/2000
- Hobbies: Playing cricket, Swimming
- Nationality: Indian
- Language Known: English, Hindi and Marathi

DECLARATION

I do hereby declare that the above information is true to the best of my knowledge.