

AMBICA GOVIND

+91 7780564774 ◊ Hyderabad, Telangana

[Email](#) ◊ [LinkedIn](#) ◊ [GitHub](#)

PROFILE

- Inquisitive, passionate and committed student eager to further research experience in the field of Theoretical Physics.
- Independent learner and detail-oriented student with good creative thinking
- Adept with spoken and written communication skills

EDUCATION

Bachelor of Engineering Physics, Indian Institute of Technology Hyderabad Expected 2025

- GPA:9.04/10
- Major: Engineering/Applied Physics
- Intended minor in mathematics

High School Diploma, Delhi Public School Vijayawada 2019 - 2021

- Graduated top of my class with 97.4% in CBSE Board Exams
- Best Outgoing Student 2020-21
- Academic Excellence Awardee in Science and Mathematics

SKILLS

Proficient Python, NumPy, Pandas, MATLAB

Familiar Git, LaTeX, C

Other Strong Communication Skills, Academic Writing, Creativity, Critical Thinking

EXPERIENCE

Undergraduate Astrophysics Research Student Jan 2021 - Present
Indian Institute of Technology Hyderabad

- Developed colour composite images of galaxies from different bands from HST Data
- Analysed data from DECaPS2, Gaia EDR3, PanSTARRS and ATNF Pulsar Catalogue to look for optical counterparts of millisecond pulsars
- Trained for remote observation of pulsars from the CSIRO Parkes Radiotelescope
- Also worked with galaxy clusters using data from SDSS and acquired experience with TOPCAT, SAO DS9 and Python Libraries for Astronomy

Astronomy Club Coordinator May 2021 - Present
SciTech Council, IIT Hyderabad

- Trained club members to operate a 10-inch Dobsonian Telescope
- Acquired skills in astrophotography and planetary imaging and processing
- Organised stargazing events, guest lectures and outreach programmes to popularise astronomy
- Currently member of a team working on automating the club telescope by integrating Stellarium and Arduino

LICENSES AND CERTIFICATIONS

MATLAB Onramp	MathWorks Inc.
The Evolving Universe	Caltech
Grade:A	
Understanding Einstein:The Special Theory of Relativity	Stanford University
Grade:100%	
The Science of The Solar System	Caltech
Grade:A	
Astrobiology:Exploring Other Worlds	University of Arizona
Grade:A	
Python for Data Analysis:Pandas and NumPy	Coursera Guided Project
Grade:100%	
Python for Data Visualisation:Matplotlib and Seaborn	Coursera Guided Project
Grade:100%	

AWARDS AND HONORS

- **Kishore Vaigyanik Protsahan Yojana(KVPY) Fellow**
Conferred by Indian Institute of Science Bangalore and Government of India
Achieved an All-India Rank of 620 in the research-oriented aptitude test
- **National Talent Search Examination(NTSE) Scholar**
Awarded by Central Board of Secondary Education and Government of India
- **Gold Honour in International Astronomy and Astrophysics Competition**
- **Gold Honour in International Youth Math Challenge**
- **Certificate for Excellent Performance: Physics Online Lecture Series for Postgraduate Students**
Awarded by Indian Association of Physics Teachers
- **Certificate of Appreciation in Science Writing Contest** Awrdded by Ministry of Science and Technology, Govt of India

VOLUNTEERING

Citizen Scientist	Zooniverse
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Helped planetary scientists in their research on Martian Southern Polar Atmosphere by manually analysing images from the Mars Reconnaissance Orbiter as part of NASA's HiRISE Experiment.

LANGUAGES

English : Full Professional Proficiency
Hindi : Native Speaker
Japanese : Elementary Proficiency
Telugu : Professional Working Proficiency