YASH GONDHALEKAR

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LinkedIn ⋄ Github

EDUCATION

Birla Institute of Technology and Science, Pilani, Goa Aug '19 - Present
B.E. Computer Science

EXPERIENCE

Project Kratos July '20 - Feb '21
Team Member

- Member of the Life Detection Subsystem.
- Worked on image processing and deep learning algorithms to design experimental techniques on rover for detecting presence or absence of life.

PROJECTS

Detection of IMBHs from Microlensing in Globular Clusters July '20 - Present
Offer Letter

- Working on Image improvement and restoration in optical time series of the M13 Globular Cluster.
- Performing Difference Image Analysis on images after cleaning them from instrumental and sky noises.
- Automating the Image Reduction process of raw images using scripting in the IRAF software.

Classification of jellyfish galaxies from the A901/2 multi-cluster system Feb '21 - Present

- Developing an automated pipeline to classify jellyfish galaxies from the OMEGA survey.
- Aim to further analyze and characterize based on their H-alpha emission.

Brain Computer Interface July '20 - Present
Code

- Using Machine Learning techniques to classify left and right hand Motor Imagery data.

Blog Web Application June '20 - July '20
Code

- Created a Web application using Flask where users can register, login, post, delete and like others blog posts or chat.

VOLUNTEER EXPERIENCE

Mentor Dec '20 - Present

- Guiding a group of freshman year students under the Academic Assistance Program (AAP) in the course Mechanical Oscillations and Waves (PHY F111)

EXTRACURRICULAR ACTIVITIES

Open Source

- Contributing to the **astropy** (Code) and **poliastro** (Code) open source repositories.

Virtual Experience Program Participant (20 Hours)
Microsoft

· Participated in open access Microsoft Virtual Experience Program with Forage and completed various tasks. Certificate

COURSEWORK

Physics, Astronomy	8.04 Quantum Physics I - MIT OpenCourseWare*, The Conquest of Space: Space Exploration and Rocket Science - UC3M*, Understanding Einstein: The Special Theory of Relativity - Stanford*, Data-Driven Astronomy – University of Sydney*, AstroTech: The Science and Technology behind Astronomical Discovery*, Analyzing the Universe*, Mechanical Oscillations and Waves@
Computer Science	DeepLearning.AI TensorFlow Developer*, Introduction to Deep Learning with PyTorch*, Certified Machine Learning Practitioner Course (CMLP) – Henry Harvin Analytics Academy@, Stanford's CS231*, CS50: Introduction to Computer Science - Harvard*, Python for Data Science and Machine Learning Bootcamp - Udemy*, Logic in Computer Science, Object Oriented Programming, Discrete Math for CS, Digital Design (*=online, @=offline)

SKILLS

Languages	Python, C, Java, SQL, JavaScript
Technologies	Git, IRAF, DS9, LaTeX
Frameworks	TensorFlow, PyTorch, Django, Flask
Operating System	Ubuntu

AWARDS

Inspire (Innovation In Science Pursuit For Inspired Research) Scholarship) June 2019
Department Of Science And Technology, India

· Awarded for performance in top 1% in Class XII Board Examination.