

Meghana Pannikkote

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OBJECTIVE:

Undergraduate student in the field of Engineering Physics with a strong interest in Astrophysics.

9A, Malabar Cityscape
Apartments, S.K. Pottakad Road
Calicut, Kerala, India
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EDUCATION

National Institute of Technology, Calicut, India — *B.Tech. Engineering Physics*

JULY 2019 - PRESENT

- Present CGPA - 8.87
- Member of CYGNUS Physics Club
- Member of AeroUnwired Club (aeronautics and aerospace club)

Bhavan's Public School, Doha, Qatar — *Senior High School*

GRADUATE 2018

- Graduated with a 95% score in CBSE Board Examination
- Class Prefect
- Represented the school at national inter-school events such as Mangalyaan Ideathon and Science India Foundation-Qatar
- Member of Eco club, Science club and Music club

RELEVANT EXPERIENCE

Internship on Machine Learning Using Python— *Verzeo*

MAY 2020 - JUNE 2020

- Applied Exploratory Data Analysis of various types of datasets.
- Worked with classification and regression data using, NLPK, SVM, Decision Trees and Random Forests.

Data-driven Astronomy — University of Sydney, *Coursera*

JAN 2021- FEB 2021

From the Big Bang to Dark Energy — University of Tokyo, *Coursera*

MARCH 2021 - APRIL 2021

Deep Learning Workshop— Shaastra 2021, *IIT Madras*

MARCH 2021

TECHNICAL SKILLS

C++ Programming
Python Programming
Machine Learning
Deep Learning (Beginner)
Ansys (Beginner)
Microsoft Office

STRENGTHS AND SKILLS

Analytical & Problem Solving skills
Teamwork
Communication skills
Leadership skills
Self-motivated
Scientific Thinking

LANGUAGES

English - Fluent
Malayalam - Native

Hands-on Python and Research Tutorial(PyR) — *conducted by Raja GuhaThakurta and team, UCLA*

FEB 2021

- Basics of Python programming via Jupyter notebooks
- Structure of a scientific journal article
- Some basic astrophysics concepts: e.g., stellar evolution, H-R diagrams/colour-magnitude diagrams, spectra, Doppler shift, galaxies: disk dynamics, formation, evolution, and mergers
- Some relevant mathematical and statistical concepts (e.g., logarithms, standard deviation)
- Explanations from people who are involved in this research

Hands-on Research Project on Cepheid Variable Stars and Data Analysis — *Naxxatra Science*

IN PROGRESS

- Fundamentals of Stellar Evolution
- Categories of Variable Stars and the internal processes of variables
- Significance of Cepheids in astronomical distance measurement
- Accessing astronomical data from open source databases
- Descriptive analysis of a dataset using the Pandas library
- Curve fitting and mathematical techniques
- Introduction to the cosmic distance ladder
- Technical presentation, report writing, and literature survey