Jyotsna J. Patil

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📍 Harivarda, 4th Lane,Kajubag,Kadgaon Road,Sambhajinagar,Gadhinglaj,Kolhapur, Maharashtra, India-416 502

📄 Research Interests

Radio Astronomy,   Pulsar Astrophysics,   ,   Gravitational Wave Astrophysics,   Multi-Messenger Astronomy

🏛 Education

August 2008- **July 2012**	Bachelors of Engineering in Civil Engineering Government College of Engineering,Karad, State–Maharashatra,India Percentage-64.24 , CGPA-7.17, USA GPA ≈3.42
August 2006- **June 2008 :**	Higher Secondary M. R. Jr. College, Gadhinglaj, State-Maharashatra, India Percentage-86.50,

📓 Research Experience

October2023- **August2024 :**	Remote Research Experience - NanoGrav/NANOstars at Oregon State University : ● Pulsar Candidate ranking on Pulsar Science Collabaratory-(60 hours) Known Pulsar -PSRJ1453+1902 ● NANOGrav Spring Meeting 2024 ● Comparison of Sensitivity curves of 3 identical pulsars from NanoGrav and PPTA ● Solar Wind Delay by using NE_SW values of PPTA ● Solar Wind Electron Density of PPTA https://github.com/JyotsnaPatil27/Jyo_code/tree/master/REMOTE%40OSU
April2022- **May2022 :**	Reading course in Fast Radio Bursts(FRBs) : ● Online lectures from YouTube and Q and A with **Prof.Avinash Deshpande,** IUCAA,Pune.
January2021- **May2021 :**	An Advanced course in Pulsar Astrophysics(IUCAA) : ● Models of Pulsar Magnetosphere. Research Problems-.1]Obtain Pulsar emission profile from X-ray events data. 2]Characterize sub-pulse drifting in pulsar radio data.
August 2018- **March 2019 :**	Vela Pulsar observation with the Ooty Radio Telescope : One-second data files ● Dynamic spectrum ● dedispersion ● Pulsar Period with **Prof. Avinash Deshpande (ex-RRI, Bangalore)**
May 2017- **July2017 :**	Reading course in Pulsar Astrophysics : ● Basic pulsar properties ● Millisecond Pulsars(MSP) ● Pulsar timimg etc.with **Prof.Bhaswati Bhattacharya, NCRA, Pune.**

🏷 Curriculum

April2016-June2018 :	Learned Physics and Astrophysics with **Prof. C.H. Ishwara Chandra, NCRA, Pune,India**
July 2015-March 2016	Attended lectures of M. Sc. First Year at **SP Pune University, Physics Department, Pune, India**

🔖 Distinction

TOEFL iBT-MyBest Scores : 81/120 (R-18, L-20, S-21, W-22)

duolingo english test : overall-120/160 (S-105, W-120, R-135, L-110)

JEST 2017(iPhD)- **24.67/100** (Qualification marks-29)

💼 Work Experience

September 2024-present :	Senior Associate **Innodata India Pvt. Ltd.,Noida, U.P.,India.**
March 2020-November 2020 :	Subject Matter Expert in **Physics** with **CheggIndia Pvt. Ltd, Delhi, India.**
May 2013-October 2014 :	**Junior Engineer** at B.G. Shirke Construction Technology Pvt. Ltd, Pune,India.

💻 Computer Skills

Programming Languages :	**Python**, LaTeX
Platforms :	Windows, Linux
Tools :	MS-Office, Libre-Office, Google Co-lab, Jupyter
Packages :	**Numpy, Scipy, Matplotlib, Scikit-learn, Pandas, Seaborn, Astropy**
PTA Analysis :	PINT, Hasasia, ENTERPRISE

</> Programming Languages

Python ● ● ● ○ ○

💡 Extra-Curricular Activities

Bharatanatyam-4 years,
Photography, Star-gazing, Drawing and Painting

■ References

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