

Nitesh Kumar

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Education





- 2018 –  **Ph.D., University of Delhi, Delhi** in Astronomy and Astrophysics (in progress*).
Thesis Title: *Automated Analysis of Photometric and Spectroscopic Astronomical Data*
- 2018  **M.Sc. Physics, Hansraj College, University of Delhi, Delhi.**
Secured 64.20%.
- 2015  **B.Sc.(H) Physics, Deshbandhu College, University of Delhi, Delhi.**
Secured 80.02%.
- 2012  **Intermediate (12th, Science), Bharat Ji Saraswati Inter College, Aonla, Bareilly, Uttar Pradesh, 243301 .**
Secured 81.6%.
- 2010  **High School (10th, Science), Bharat Ji Saraswati Inter College, Aonla, Bareilly, Uttar Pradesh, 243301 .**
Secured 81%.

Research Publications




Journal Articles

- 1  **Nitesh Kumar**, A. Bhardwaj, H. P. Singh, *et al.*, “Predicting light curves of RR Lyrae variables using artificial neural network based interpolation of a grid of pulsation models,” *Monthly Notices of the Royal Astronomical Society (MNRAS)* (**IF: 5.5**), vol. 522, no. 1, pp. 1504–1520, Mar. 2023, ISSN: 0035-8711.  DOI: [10.1093/mnras/stad937](https://doi.org/10.1093/mnras/stad937).

Skills

Languages	 Proficient in reading, writing, and speaking English and Hindi .
Coding	 Experienced in Python , AI/ML , Java , C , C++ , IDL , and SQL .
Web Development	 Skilled in HTML , CSS , and JAVASCRIPT .
Miscellaneous	 Proficient in academic research, teaching, training, consultation, and \LaTeX type-setting and publishing.

National Level Exams

- 2018  **CSIR JRF/NET**, Cleared CSIR JRF(NET) - Physical Sciences of DECEMBER 2018.
-  **CSIR JRF/NET**, Cleared CSIR JRF(NET) - Physical Sciences of JUNE 2018.
-  **GATE PHYSICS**, Cleared GATE PHYSICS 2018.

Workshop and Conferences

- 2022
- **IFAS 7**, Participated in the *Indo-French Astronomy School (IFAS) on Spectroscopy and Spectrographs*, hosted at The Inter-University Center for Astronomy and Astrophysics, Pune, from November 21 to 27, 2022.
 - **YAM 2022**, Gave a presentation titled "Application of Artificial Neural Networks in Generating RR Lyrae Light Curves" at the *Young Astronomers' Meet*, held at Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, from November 9 to 13, 2022.
 - **International Staff Week 2022**, Attended the *International Staff Week* with the theme "*Internationalization in the New Era*" organized by WSB University, Dąbrowa Górnicza, Poland, from May 16 to 20, 2022.
 - **EAS 2022**, Participated in the *European Astronomical Society Annual Meeting* from June 27 to July 1, 2022.
 - **FDP WORKSHOP**, Engaged in the *One-week Faculty Development Program - "Recent Trends and Challenges in Intelligent Systems and Machines (RTCISM)"* organized by Amity School of Engineering & Technology (ASET), Amity University Patna, from July 25 to 29, 2022.
- 2021
- **Code/Astro**, Completed a 40-hour course on Python-based software development for astronomers, covering software development paradigms and environments, version control, testing, documentation, packaging, and profiling.
 - **ASI 2021**, Participated and presented a poster titled "*Spectral Interpolation using Artificial Neural Networks (ANN)*" at the *39th Annual Meeting of the Astronomical Society of India (ASI)*, a virtual meeting hosted jointly by ICTS - TIFR Bengaluru, IISER Mohali, IIT Indore, and IUCAA Pune from February 18 to 23, 2021 (https://astron-soc.in/asi2021/abstract_details/ASI2021_66).
- 2020
- **IFAS 6**, Participated in the *6th Indo-French Astronomy School - Treasures in the Voxels*, held online by the Centre de Recherche Astrophysique de Lyon from July 9 to 17, 2020.

Invited Talks

- 2023
- Delivered an introductory lecture on Astronomy at Government Degree College, Budaun, Uttar Pradesh.

Miscellaneous

- 2023
- Reviewed a manuscript for The Astronomical Journal (AAS) international journal (IF: 5.491).
- 2022
- Served as a subject matter expert in the assessment of the translation of first-year engineering SWAYAM courses (Quantum Mechanics - I) into regional languages (Hindi).
- Project
- Developed the website <https://ann-interpolator.web.app/> for a specific project.

References

Available on Request