Adarsh Patil

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Assistant Professor in Physics with deep interest in Machine Learning and Science education. Experienced in teaching, mentoring, and creating academic content. Passionate about building learning tools at the intersection of AI and Physics.

Work Experience

Assistant Professor (Aug 2024 – May 2025)

Punyashlok Ahilyadevi Holkar Solapur University, Solapur, Maharashtra

- Taught Applied Electronics to postgraduate students.
- Mentored students in their academic projects.
- Incorporated modern teaching methods, including slide presentations and online teaching.
- Performed administrative tasks to support departmental operations.

Student Mentor (Jun 2024 – Aug 2024)

Bakliwal Tutorials, Solapur, India

- Counseled students individually to enhance personal and educational motivation.
- Developed goal-oriented strategies to improve student performance.
- Monitored academic progress and provided interventions for struggling students.

Education

M.Sc. in Physics | November 2023

Punyashlok Ahilyadevi Holkar Solapur University, Solapur, Maharashtra

- GPA: 70%

Certifications

- Data Science & Machine Learning | Suvi Instruments (2023)
- Machine Learning Specialization by Andrew Ng (1 and 2nd-Course) | Coursera (2025) [One](#) [Two](#)

Projects

Damped Harmonic Oscillator AI Surrogate Model - Deployed using Streamlit

- Built a regression model to predict oscillator motion using MLPRegressor, with input features like initial position, velocity, damping, and spring constant. Deployed with Streamlit. [App](#) [GitHub](#)

Skills

Python, Matplotlib, Numpy, Pandas, Scipy, tensorflow, scikitlearn, ML, Teamwork, Communication.

Awards & Honors

- University Gold Medallist in Physics
- INSPIRE Scholar (2018-21) – Received scholarship for throughout B.Sc. and M.Sc. from DST, India.