

# Vaibhav Bhardwaj

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## SKILLS & TOOLS

- **Languages:** Python, R, C++, Java, SQL
- **Frameworks:** TensorFlow, PyTorch, NumPy, Pandas
- **Platforms:** Tableau, Git, GitHub, Jupyter Notebook, MATLAB
- **Expertise:** Machine Learning, AI Model Training, Computational Chemistry, Physics Simulations

## TRAINING & CERTIFICATIONS

- **Deep Learning Specialization** – Coursera (*Jul '24*)
- **AI for Scientific Discovery** – edX (*Jan '24*)
- **Computational Chemistry & Physics** – NPTEL (*Nov '24*)
- **Advanced AI & Machine Learning Training** – Coursera (*Jun '24*)

## PROJECTS

### AI-Based Molecular Property Prediction (*Python, TensorFlow, RDKit*) (*Dec '24*)

- Developed a deep learning model to predict molecular properties like solubility and reactivity.
- Preprocessed molecular datasets using SMILES-based features.

### Quantum Mechanics Simulation (*MATLAB, Python*) (*Nov '24*)

- Built a quantum mechanics simulator modeling Schrödinger's equation.
- Implemented wavefunction evolution using finite difference methods.

## ACHIEVEMENTS

- Published a research paper on AI in computational chemistry (*Jun '24*)
- Developed ML models optimizing material properties for energy storage (*Present*)
- Solved 200+ machine learning & scientific computing problems on Kaggle (*Jun '23*)

## EDUCATION

### Lovely Professional University, Punjab

- **B.Tech – Information Technology** (*Since Aug 2022*)
- **CGPA:** 8.01
- **Coursework:** Machine Learning, Computational Chemistry, Physics Simulations

### Pradesh Public International School of Sciences, Hamirpur (H.P.)

- **Intermediate (96%)** (*2019 - 2021*)
- **Subjects:** Physics, Chemistry, Mathematics

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