

Himanshu Patil

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Education

- Nov 2022 - **Bachelor of Technology - Information Technology**,
July 2026 *Vishwakarma Institute of Technology, Pune*
CGPA: 8.14
- Aug 2019 - **Junior College - HSC**, *Sri. Shivaji Science College, Nagpur*
June 2021 Percentage: 87.33%
- June 2011 - **Secondary School - SSC**, *Happy Faces The Concept School, Washim*
June 2019 Percentage: 92.16%

Skills

Operating System, OOP(Java), Python, Java, Machine learning, Data Science, HTML, CSS, Tailwindcss, JavaScript, TypeScript, Nextjs, Appwrite, MongoDB

Projects

- Aug 2024 - **StellarGraph: Constellation Detection and Analysis Using Modified GNN and GMN**
Nov 2024
 - Developed a constellation detection and analysis system using modified GNN and GMN, detecting star keypoints, modeling spatial relationships, and enabling accurate star mapping. Integrated computer vision with astronomy for effective and adaptable star map analysis. Published paper at SPRINGER conference. [\[Link\]](#).
 - Tech Stack:** Python, PyQt, OpenCV, PyTorch, NetworkX, Graph Neural Networks (GNN), Graph Matching Networks (GMN), ORB Feature Extraction.
- Aug 2024 - **MultiProgOS: A Multiprogramming Operating System Simulator**
Nov 2024
 - Developed a multiprogramming OS simulation with CPU, memory management, and I/O handling. Implemented paging, interrupts, error handling, and PCB management.
 - Tech Stack:** Java
- Feb 2024 - **SleepWise: Predicting Sleep Efficiency with Advanced Regression Models**
Jun 2024
 - Developed a sleep efficiency prediction model in R using Kaggle data, applying feature selection (Lasso, ANOVA, RFE) and regression algorithms (Random Forest, Gradient Boosting, SVR, Decision Trees). Achieved 0.9 R² with Random Forest and RFE.
 - Tech Stack:** R, Shiny, caret, rpart, randomForest, e1071, gbm, Metrics

Experience and Achievements

- 2025 **Mind The Product**, *Indian Institute of Technology (IIT), Roorkee, E-Summit'25*
 - Participated in Mind The Product, a product management hackathon at IIT Roorkee's E-Summit '25. Solved industry problem statements through an online quiz, abstract submission, and final presentation on campus.
 - Secured **AIR 19** out of 1500 shortlisted teams across India.

Extracurriculars

- Jan 2023 - **AI/ML Team Member**, *Microsoft Learn Student Club, VIT Pune*
Jan 2024 Developed and executed strategic plans to acquire, maintain, and enhance public speaking skills. Organized workshops on AI/ML, UI/UX, Blockchain, and DSA. Contributed to organizing Hackspiration'24.

Certifications

- 2025 Introduction to DevOps by IBM [\(View\)](#)
- 2025 Introduction to Cloud Computing by IBM [\(View\)](#)
- 2024 0-100 Full Stack Web Development Course [\(View\)](#)
- 2024 Brand Management by Unstop [\(View\)](#)