

# ADITYA KUMAR SINGH

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## Professional Summary

Motivated and detail-oriented Computer Science student with a strong foundation in data science, machine learning, and full-stack web development. Proven ability to build and deploy real-world applications using Python, XGBoost, Node.js, and MongoDB. Seeking a data science or software development internship to contribute technical skills and gain industry exposure.

## Education

University of Petroleum and Energy Studies (UPES), Dehradun, India  
Bachelor of Technology in Computer Science and Engineering (Data Science) | Aug 2022 – May 2026

Shivam Convent Senior Secondary School, Patna, Bihar  
Class XII – CBSE | 2022 | Percentage: 81%

Bishop Scott Boys School, Patna, Bihar  
Class X – CBSE | 2020 | Percentage: 85%

## Work Experience

IBM Virtual Internship Program – Machine Learning Intern | Remote | Jan 2024 – Mar 2024

- Designed and trained ML models for loan default prediction using supervised learning techniques.
- Improved model accuracy by 18% using gradient boosting and hyperparameter tuning.
- Created EDA dashboards and charts using Seaborn and Matplotlib for stakeholders.
- Collaborated in a remote team environment using Git and Colab for code sharing.

Technologies: Python, Gradient Boosting, Pandas, NumPy, Seaborn, Matplotlib

## Projects

Examnify – Online Exam Management System | Feb 2025 – Apr 2025

- Developed full-stack application with Google OAuth login and role-based dashboards.
- Enabled CSV import of 500+ questions and automated result generation.
- Sent email alerts to users using NodeMailer; integrated MongoDB for scalable storage.

Technologies: Node.js, Express.js, MongoDB, JavaScript, HTML, CSS

House Rent Prediction System | Sep 2024 – Nov 2024

- Built regression model using XGBoost with 87%  $R^2$  score; processed 1000+ records.
- Deployed on Streamlit with user inputs and real-time prediction interface.
- Performed cross-validation and feature engineering for optimal performance.

Technologies: Python, XGBoost, Pandas, NumPy, Scikit-learn, Streamlit

## Technical Skills

- Programming Languages: Python, Java, C, SQL, JavaScript
- Web Development: HTML5, CSS3, JavaScript, Node.js, Express.js, REST APIs
- Machine Learning: Scikit-learn, XGBoost, Regression, Classification, EDA
- Database: MongoDB, MySQL, SQL Joins, Indexing
- Tools: Git, GitHub, Google Colab, VS Code, Streamlit
- Data Visualization: Matplotlib, Seaborn, Plotly

## Certifications

- Python for Data Science – IBM SkillsBuild – 2025
- Machine Learning Internship – Internshala – 2025
- Python (Basic) Skill Certificate – HackerRank – 2025

## Achievements & Activities

- Finalist – Internal Round, Smart India Hackathon 2024
- Published 5+ projects on GitHub with 200+ stars/views combined
- Completed 3+ virtual internships and assessments in ML and web development
- Regular participant in coding contests on LeetCode and GeeksforGeeks