

# PRANSHU RASTOGI

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## EDUCATION

### Bachelor of Technology in Computer Science Engineering

Vellore Institute of Technology, Vellore

Sep 2022 – May 2026

- CGPA: 8.82/10 (Till 6th Semester)

### 12th Grade (Science - PCM)

Shalom Hills International School, Gurugram

March 2021 – July 2022

- Percentage: 93.6%

## SKILLS

### Programming Languages

Java, Python, C, Cpp, HTML, CSS, JavaScript, SQL, R, PHP

### Machine Learning

Python Libraries (Pandas, NumPy, Scikit-learn)

### Cyber Security

Kali Linux, Metasploit, SET toolkit, Wireshark, Nmap, Vulnerability Analysis, Penetration Testing, Password Cracking Tools, Web Application Security

### Soft Skills

Leadership, Public Speaking, Teamwork, Documentation

## EXPERIENCE

### Intern – Aligned Automation

June 2024 – July 2024

- Developed an configurable automated machine learning pipeline using LightGBM and Linear Regression, streamlining model training, evaluation, and deployment.
- Designed the pipeline to support both regression and classification tasks, with full control over configuration through a flexible config.yaml file.
- Enhanced code quality and implemented reusable libraries, gaining hands-on experience in collaborative development.

## PROJECTS

### Flight Delay Prediction and Tracker System - R, Shiny, Plumber, Random Forest, Web Scraping, REST APIs, Plotly

- Developed a real-time flight tracking and delay prediction(RMSE: 8.806) system using R, integrating a custom REST API with a dynamic Shiny dashboard
- Implemented caching to enhance response times by reducing redundant scraping and server load.

### Sentiment Analyzer for Product Reviews - Python, NLTK, scikit-learn, Pandas, Matplotlib, WordCloud

- Developed a sentiment analysis model using Logistic Regression and TF-IDF vectorization to classify product reviews with 81.63% accuracy .
- Built an interactive interface for real-time sentiment prediction and visualized insights using WordCloud for positive and negative reviews .

### Personal Web Portfolio - Designed a dynamic and responsive personal website using HTML, CSS, and JavaScript.

- [Live Website Link](#)

## CERTIFICATIONS

- Azure Data Fundamentals – Microsoft (August 2024)
- Azure AI Fundamentals – Microsoft (July 2024)
- OCI Generative AI Certified Professional – Oracle (July 2024)

## LEADERSHIP & VOLUNTEERING

### Senior Core Member

RoboVITics (Official Robotics Club of VIT)

March 2023 – Present

- Organized technical workshops and promoted events, improving teamwork and leadership skills.