RUDRA RANJAN

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Education

Shri Ramdeobaba College Of Engineering And Management, India	**2021 - 2025**

- Branch B.Tech in Computer Science in Specialization with AIML| CGPA: **8.45**(current)

St. Paul School , India	**2021**

- MSBSHSE | (Class XII) | Aggregate: **97%**

Kendriya Vidyalaya , India	**2019**

- CBSE | Class X | Aggregate: 87.4%

Skills

C++ | Python | Flask | Java | MySQL | Git | HTML | AWS | Machine Learning | EDA | Data Visualization | Scikit-learn | Deep Learning | OOPS

Work Experience

Asterisc Technocrat | **Data Science Intern**	**June'23 - Jul'23**

- Developed a **Stock Market Price Prediction** model with **90%** accuracy using **LSTM**.
- Created I**nstagarm Reach Forecating** Model using **EDA ,Data Visualisation** ,improving prediction accuracy by **25%**.
- Conducted **Covid-19 Impact Analysis** using **EDA and Data Visualization** on data from over **20+** countries.

Projects

SKYGUARD:AI FOR DRONE DETECTION **(hyperlinked)**	**April'24**

Engineered a high-precision **real-time** drone detection system using **YOLO NAS**, attaining **95%** accuracy and significantly improving surveillance capabilities for enhanced security and faster response times.

- Devised a dynamic web app with live webcam streaming and chat via **Flask-SocketIO.**
- Integrated live alerts for drone detections with over **80%** confidence.

AI Water Well Construction Advisor ↗	**December'23**

Web-based application predicting well **construction suitability** and **groundwater quality**, utilizing AI. User-friendly interface implemented for easy decision-making , with accurate predictions through **Python and machine learning**(SIH Problem Statement).

- Achieved **96%** accuracy in well suitability predictions using AI and machine learning.
- Designed an AI Water Well **Quality** Advisor, optimizing water management for **5300+** wells across India.
- Deployed a web-based application for precise **groundwater quality assessmen**t in AWS.

Diabetes Prediction Project ↗	**May'23**

Engineered an **AI-driven web application predicting diabetes likelihood,** leveraging **machine learning** to analyze various health factors and deliver **precise outcomes**.

- Created a web application to **predict diabetes** risk with **90%** accuracy.
- Utilized **Python, Flask, and machine learning** for project deployment.

Academic and Extracurricular Achievements

- Regional Level Cricket Player U-17 & kabaddi U - 14.
- Nationalist in the National Science Exhibition .
- Represented my school in **NEERI**(National Environmental Research Institute) .

Certifications ↗

- [Machine Learning Specialization (STANFORD UNIVERSITY)](#)
- [Professional Certificate of Essential Technologies for Business](#) (IBM)
- [Data Storage in Microsoft Azure](#) , [Microsoft Azure services and lifecycle](#) , [Introduction to Microsoft Azure cloud services](#)

Positions of Responsibility

ACM RCOEM | **Publicity Head**	**Oct'22 - Present**

- Orchestrated and managed **10+** ACM events, including workshops, conferences, and seminars; attracted **500+** attendees and facilitated knowledge-sharing among industry experts.
- Demonstrated strong **communication** and **leadership** skills by coordinating cross-functional teams of **10+** members and ensuring smooth execution of each event.