Vivaan SIHMAR

New Delhi

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Education

Maharaja Agrasen Institute of Technology	**2024 - 2028**
Bachelor of Technology in Information Technology and Engineering	*Sec-22, Rohini, New Delhi*
Vikas Bharati Public School (CBSE)	**2020 - 2024**
Class XII	*Sec 24 Rohini, New Delhi*
Vikas Bharati Public School (CBSE)	**2019 - 2020**
Class X	*Sec 24 Rohini, New Delhi*

Experience

DRDO, Gov of INDIA   Spring 2025 to Summer 2025

LAN Intern

New Delhi, India

- Built an internal complaint and data management portal using Python and MongoDB.
- Enabled secure collection, storage, and analysis of issue data across departments.
- Collaborated with CML and Works departments to understand organizational workflows.

Projects

Diabetes Prediction using Machine Learning (R)

- Developed predictive models using logistic regression and random forest on the Pima Indian dataset.
- Achieved over 82% accuracy using caret and implemented cross-validation for performance tuning.

Internal Complaint & Data Management Portal – DRDO

- Created a secure web portal using Python and MongoDB to collect, store, and analyze complaint data.
- Enabled recurring issue tracking and promoted data-driven decisions across departments.

AI-Based Climate Chatbot

- Built a rule-based chatbot that uses weather APIs to detect natural disasters (heatwaves, floods, storms).
- Stored user subscriptions and alerts in MongoDB.

Course Work

- DATABASE MANAGEMENT SYSTEM
- OBJECT-ORIENTED PROGRAMMING
- DATA ANALYSIS

Technical Skills

- **Languages:** Python, R, SQL
- **Libraries/Frameworks:** pandas, NumPy, scikit-learn, caret, Flask
- **Tools:** Git, Excel, VS Code
- **Databases:** MongoDB, MySQL
- **Other:** REST APIs, Data Cleaning, Data Visualization

Certifications

- **Applied science with R (IBM)**

- **Business Analysis & Process Management (COURSERA)**
- Machine learning with Python (IBM-COURSERA)