

Smriti Singh

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 [smriti github](#)

 [smriti linkedin](#)

SKILLS

- **Programming languages** :C++,Python
- **Web development** : HTML , CSS , JavaScript
- **Machine learning** : XGBoost, CatBoost, Random Forest, GNN
- **Frameworks and Tools** : Pandas, NumPy, MySQL

EDUCATION

- **B.Tech in Computer Science(Specialisation in AI & ML)**
Vellore Institute of Technology, Bhopal **CGPA: 9.22 | Expected: 2027**
- **XII (CBSE)** VBCV, Jamshedpur **percentage :87% | Year : 2022**
- **X (ICSE)** Hill Top School, Jamshedpur **percentage :94% | Year : 2020**

PROJECTS

Drug Discovery Using Machine Learning | Oct 2024

- Achieved **87.9%** accuracy using a **Graph Neural Network (GNN)**, surpassing the Random Classifier (75%).
- Processed molecular bioactivity data from **ChEMBL**, leveraging **graph-based representations**.
- Optimized model performance using hyperparameter tuning and statistical evaluation (**Precision, Recall, F1-Score, ROC-AUC**).
- **Tech Stack**: Python | PyTorch Geometric | RDKit | Scikit-learn | Google Colab (GPU)

Book Recommendation System | Jan 2025

- **Built a book recommendation system** suggesting **top 5 books** based on **similarity scores**, improving accuracy.
- **Designed an interactive UI** with **Flask, Bootstrap, and Jinja**, increasing **user engagement by 50%**.
- **Processed 200,000+ ratings**, optimizing data handling with **Pandas, NumPy, and Pickle**, cutting **API response time by 35%**.
- **Tech Stack**: Flask | Python | Pandas | NumPy | Bootstrap | ML.

ACHIEVEMENTS & CERTIFICATIONS

- **100-Day Coding Challenge (#DrGViswanathan)**: Solved **145+ Leetcode problems** with **200+ submissions**, demonstrating strong problem-solving skills and algorithmic proficiency.
- **Data Structures & Algorithms (DSA)**: Proficient in solving complex problems using **C++**, with a strong focus on efficiency, optimization, and algorithmic problem-solving.