

Arpit Rohila

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Profile

A dedicated and enthusiastic majoring in specializing in **Artificial Intelligence** and **Data Science**, with a strong foundation in **statistics**, **machine learning algorithms** and the **mathematical intuition** behind them. Proficient in Data Structures and Algorithms (**DSA**) and adept at problem-solving, with programming expertise in **Java**, **C++**, and **C**, alongside **familiarity with Python**. Familiarity in Building **REST API's** using **Spring Boot**, and highly Interested in **research** and **new innovations** that drive societal progress.

Projects

TUMOR CLASSIFICATION: - [GitHub](#)

- The model predicts **benign or malignant** tumors using the **Naive Bayes classification** algorithm. The model estimated **Gaussian distribution** parameters for a multivariate probability distribution to handle continuous features effectively. Achieved approximately **95% accuracy**, demonstrating the algorithm's efficacy in medical data classification tasks.

HOUSE PRICE PREDICTION: -

- Developed and evaluated predictive models for housing price estimation using a dataset of 5,000 records
- Implemented a **10-fold cross-validation** strategy to validate models, achieving error reduction by selecting optimal features.
- **Minimize** the **cost function** of least square fitting using **Gradient Descent** with **97% Accuracy**

Skills & Abilities

- Optimizing solution using Data structure and Algorithms
- Analysis of Algorithms to understand their complexities
- Statistical Analysis on Data set to summarize the Data
- Implementing Machine learning algorithms on Data to estimate to output by defining the Hypothesis on test data.
- Object Oriented Programing to achieve Encapsulation, Abstraction, Polymorphism and Inheritance in programing methodologies

Programing Languages

- Java
- C, C++
- Python
- HTML, CSS

Framework

- Spring and Spring Boot
- Spring MVC
- Microservices
- Maven
- REST APIs

Tools

- Git & Git-Hub
- Intelli-J-idea

Education

• Bachelor of Technology (*Graphic era hill university*)

2023-2027

Cse (Hons.) with **Data Science & Artificial Intelligence**

CGPA: - 8.41

As part of bachelor's Program, **Engineering Mathematics**, **Programing skills**, **Data structure** and **algorithm**, **Object-Oriented- Programing**, **Statistics** and **Mathematical foundation of AI and ML**. This coursework has equipped me with analytical, computational, and problem-solving skills essential for AI and data-driven applications.

• Intermediate (*Gurukul Vidyapeeth*)

2022-2023

Physics, Chemistry and Mathematics

Percentage: -87%

• High School (*Gurukul Vidyapeeth*)

2020-2021

"Driven by curiosity and a problem-solving mindset, I am keen to explore cutting-edge AI techniques and contribute to impactful projects."