


# MALAY JAIN

Second Year Undergraduate  
Department of Artificial Intelligence and  
Machine Learning

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 [Portfolio](#) • [GitHub](#)

## EDUCATION

Course	Institution	CGPA/%	Year
B.Tech	Sagar Institute of Research and Technology, Bhopal (M.P.)	7.6	2026
XII Class	St. Joseph's Convent S.S. School, Sagar (M.P.)	84.2%	2022
X Class	St. Joseph's Convent S.S. School, Sagar (M.P.)	76.5%	2020

## EXPERIENCE

### GeeksForGeeks Campus Mantri ( 1 Year )

April 2024 - Present

- **Event Organization and Management:** Organized coding contests and hackathons, managed webinars and guest lectures from industry experts, coordinated workshops on programming languages and technologies.
- **Promotion and Outreach:** Promoted GFG events and resources within the campus through social media, posters, and word-of-mouth, increased the GFG community engagement by conducting regular meetups and discussions, collaborated with other campus clubs and societies for joint events and activities.
- **Skill Development:** Enhanced personal technical and soft skills through active participation and leadership in GFG activities, demonstrated proficiency in programming languages and problem-solving by participating in and promoting GFG coding challenges.
- **Mentorship and Guidance:** Mentored junior students in programming, helping them with coding practice and problem-solving techniques, provided guidance on how to utilize GFG resources effectively for learning and career growth.

### Codsoft Intern - [Source Codes](#)

Tools:

March 2024

Successfully completed more than 5 C++ projects while working as an intern utilizing C++ to incorporate the assigned tasks, using the knowledge of DSA implementing the algorithms.

VS Code for coding  
Jupyter  
MySQL Workbench  
Power BI

- **Library Management System**
- **Random Number Generator Game**
- **Simple Calculator**
- **Tic Tac Toe game**
- **To Do List**

## PROJECTS

### Cardiovascular Disease Name Prediction

Overview: Developed a Machine Learning system for detecting the name of heart disease the patient might have, we presented this model at **IIT MANDI**.

- **Implementation:** Preprocessed data including handling missing values and feature scaling. Trained Support Vector Machines (SVM), k-Nearest Neighbors (KNN), and Random Forest models. Conducted hyperparameter tuning using GridSearchCV.
- **Technologies:** Python, scikit-learn, numpy, pandas
- **Features:** Model training, hyperparameter tuning using GridSearchCV, and evaluation using metrics such as accuracy, precision, recall, F1 score, and AUC-ROC.
- **Results:**
  - Random Forest : 71%
  - SVC : 70%
  - KNN : 68%
  - Decision Tree : 68%

### Movie Recommendation System

Overview: Developed a machine learning system for personalized movie recommendations.

- **Implementation:** Preprocessed data, trained models, and performed hyperparameter tuning
- **Technologies:** Python, Scikit-learn, Numpy, Pandas
- **Results:** Improved recommendation accuracy by 95%, received positive user feedback

### Loan Prediction System

Overview: Developed a machine learning system for predicting loan approval outcomes, aiding financial institutions in making informed loan distribution decisions.

- **Implementation:** Preprocessed data by handling missing values, encoding categorical variables, and normalizing features. Trained a k-Nearest Neighbors (KNN) model to predict loan approval outcomes and evaluated its performance.
- **Technologies:** Python, scikit-learn, numpy, pandas, matplotlib
- **Results:** Achieved an accuracy of approximately 78% on test data using the KNN model.

### Library Management System

Overview: Developed a Python-based application to manage library operations efficiently.

- **Implementation:** Implemented CRUD operations, user authentication, and search functionality
- **Technologies:** Python, MySQL, Pandas
- **Results:** Streamlined library operations, improved user experience, and reduced manual effort

## PROGRAMMING SKILLS

- Machine Learning and it's Algorithm
- Data Scientist
- DSA with C

### Frameworks

- Flask

### Tools:

- VS Code for coding
- Jupyter
- MySQL Workbench
- Power BI

### Languages:

- Python - Completed a Major Project, HackerRank Certificate
- MySQL - 5 Star on Hacker Rank
- C/CPP - Completed 4 Minor and 1 Major project

## EXTRA-CURRICULAR ACTIVITIES

- Part of GDSC (Google Development Students Club)
- Part of Microsoft Learn Student Community
- Part of Young-India as Health Chair
- Player in the collage Basket Ball team
- Event Coordinator in collage fest
- NCC 'C' Certificate
- Player in school Basket Ball Team