

Malay Jain



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Education

Sagar Institute of Research and Technology, Bhopal

Aug 2024 – June 2026

B.Tech. in Artificial Intelligence and Machine Learning | CGPA: 7.77

St. Joseph's Convent S.S. School, Sagar

June 2022

12th PCM | 84.2%

Publications

Code Copyright: **A Model for Prediction of Cardiovascular Diseases Using Machine Learning**

Aug 2024

(Sagar Institute of Research and Technology)

Malay Jain, Brajesh Singh Ahirwar, Shubham Rahangdale, Aniket Kumar Mishra

Registration Number: L-157174/2024

Copyright of the code was Obtained of the Machine Learning Model. The **research paper** still under review was presented at the International Research Conference.

Internship Experience

AI Intern – Inventohack Innovations Pvt. Ltd. (Remote)

Apr 2025 – Jul 2025

- Contributed to AI and R&D initiatives, focusing on real-world problem-solving in 2 projects.
- Assisted in data preprocessing, model experimentation, and performance evaluation.
- Collaborated remotely with the team under direct supervision of the Director.

Projects

AI Powered Solar and Wind Energy Forecasting [git-hub/repo](#)

March 2025

- Built a **ML platform** to forecast solar/wind energy using **36k+ row dataset**.
- Designed **hybrid XGBoost-LSTM** models, cutting errors by **30%**, boosting efficiency by **40%**.
- Achieved **95% accuracy** in solar, **91%** in wind energy forecasts.
- Deployed a real-time **prediction API** integrated into dashboards, slashing decision time by **50%**.

SAVE THAT GRAVY: FOOD WASTE MANAGEMENT PLATFORM [git-hub/repo](#)

Aug 2024

- Built a **demand forecasting tool** to cut food waste by **20%**.
- Trained **Random Forest Regressor** models, cutting overproduction by **40%**, reaching **85% accuracy**.
- Developed full-stack app using **Python** and **MySQL**.
- Integrated **inventory system** reducing spoilage by **25%**, auto-alerting NGOs for food redistribution.

A Model for Prediction of Cardiovascular Diseases Using Machine Learning [git-hub/repo](#)

Jun 2024

- Built a **predictive model** for early detection of cardiovascular disease achieving **81% accuracy**.
- Trained on a dataset of **1,000+ records**, optimizing feature selection to improve **precision to 95%**.
- Achieved **81% accuracy** and **95% precision** using Random Forest Classifier (Gini Impurity).
- Secured **copyright** for the code; research paper currently under review for publication.

Technologies

Languages: Python, SQL, C++.

Technologies: Flask, GitHub, Azure(Basic), MySQL Workbench, Excel.

Achievements

- 3rd positions** won among total 25 national teams at **1 Billion row data analysis** at IIT-BHU.
- 5th position** among total 30 selected teams in the **National Level Hackathon** held at IIT-BHU.
- Presented **Research Paper** at **International Research Conference** held at IIT-Mandi.
- GDG Campus Ambassador** promoting various **Google Technologies** and **coding culture** in college.