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.
- 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 **Linear Regression & ARIMA** 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*

- Developed 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: C++, C, Python, SQL.

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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.
- **GDG Campus Ambassador promoting** various **Google Technologies** and **coding culture** in college.