Malay Jain

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Education

Sagar Institute of Research and Technology, Bhopal *Aug 2024 – June 2026*
B.Tech.| RGPV | in Artificial Intelligence and Machine Learning | CGPA: 7.77

St. Joseph's Convent S.S. School, Sagar *June 2022*
12th PCM | CBSE | 84.2%

St. Joseph's Convent S.S. School, Sagar *June 2020*
10th | CBSE | 76.5%

Publications

Code Copyright: **A Model for Prediction of Cardiovascular Diseases Using Machine Learning** *Aug 2024*
(Sagar Institute of Research and Technology) Registration Number: L-157174/2024

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

Copyright of the code was Obtained of the Machine Learning Model.

Internship Experience

AI Intern – Inventohack Innovations Pvt. Ltd. (Remote) *Apr 2025 – July 2025 (Ongoing)*

- 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.
- Gained industry-level insights by working closely with the CTO and development team.

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 Database, MySQL Workbench, Excel.

Achievements & Certifications

- **Community Leadership:** GDG Campus Ambassador.
- **Hackathons: 3rd place** – 1 Billion Row Data Analysis, IIT-BHU; **5th place** – National Hackathon, IIT-BHU.
- **Certifications:** NPTEL – **Python for Data Science**, scored **75%**.
- **Extra-Curricular:** NSS volunteer in blood donation camps;
  Also volunteered at Google Cloud and WordPress tech events (college & regional level).