Malay Jain

06232155888 | malayjain1234@gmail.com | Linkedin-malay-jain-706b03267 | Portfolio | GitHub-MalayJain412

Education

Course	Institute	Domain	Year	Percentage/CGPA
B.Tech	Sagar Institute of Research and Technology, Bhopal	AIML	2026	7.61
12th	St. Joseph's Convent S.S. School, Sagar	PCM	2022	84.2%
10h	St. Joseph's Convent S.S. School, Sagar	All	2020	76.8%

Projects

Cardiovascular Disease Name Prediction
- **Overview**: This model supports early detection and diagnosis of heart disease types, enabling more accurate treatment decisions and proactive healthcare. It can serve as a foundational tool in clinical decision support systems to assist healthcare providers with diagnosis and improve patient outcomes.
- **Dataset Engineering**: Preprocessed heart disease dataset and encoded categorical variable.
- **ML Model** : Implemented **Random Forest Classifier** with **Gini criterion** and optimized parameters.
- **Deployment:** Deployed the prototype model using **Streamlit**, a library of python.
- **Performance Metrics**:   **1) Precision/Recall** : 100%   **2) Weighted Average Accuracy**: 81%

Expert - Candidate Matching System
- **Overview:** This model streamlines expert selection by providing precise, automated candidate-expert matching, saving time and improving relevance. It enhances decision-making in interviews and mentorships with data-driven recommendations tailored to candidate profiles, benefiting organizations.
- **Using NLP:** Utilized NLP techniques **(SpaCy NER)** to extract key phrases from expert and candidate profiles, focusing on qualifications, skills, research areas, and professional accomplishments.
- **BRET Algorithm:** Integrated BERT-based embeddings **(Sentence-BERT)** to generate semantic representations of profiles, enabling precise similarity calculations.
- Applied **cosine similarity** to rank and recommend the top 5 most relevant experts for each candidate.

Food Waste Management System   *(Secured Top 5 at MANIT Hackthon)*
- **Overview:** Designed a predictive system focused on minimizing food waste in hostel messes by leveraging data analytics, machine learning, and inventory management.
- **System Development:** Created a food waste reduction platform using MySQL, Python, and React, predicting optimal food portions to minimize waste in hostel messes by analyzing consumption patterns.
- **Data Generation Process:** Simulated hostel menu data to reflect realistic consumption and waste patterns, supporting accurate demand forecasting for meal planning and reducing waste through predictive analysis.
- **Predictive Modeling:** Implemented Linear Regression and ARIMA models to forecast meal preparation needs, accurately estimating quantities to reduce food waste by aligning portions with demand.
- **API and Inventory Management:** Built a Flask API for real-time predictions, integrated inventory management to track stock levels, and designed a surplus alert system for NGOs to handle excess food.

Community Leadership

1. **Google Developers Group Lead (GDG Lead) [Chapter SIRT] Sep 2024- Present**
2. **GeeksForGeeks (GFG) Campus Mantri - Apr 2024- Present**
   - **Event Organization and Leadership:** Organized and led workshops, hackathons, and technical events on diverse technologies, fostering hands-on learning and increasing participant engagement.
   - **Strategic Marketing Initiatives:** Developed and executed strategic marketing initiatives across multiple platforms, boosting event attendance and cultivating an active tech community.
   - **Project-Based Learning Facilitation:** Project-based learning for students, enhancing their proficiency in various technologies while incorporating relevant industry courses to develop practical skills.
   - **Personalized Guidance and Support:** Provided tailored guidance to help members achieve project milestones, enhance their learning journeys, and build technical confidence.

Skills
- **Technical Languages:** Python, C++, C, SQL
- **Frameworks**: Flask, TensorFlow
- **Tools**: VS Code, Jupyter, MySQL, Power BI, Streamlit

Certifications:
- **Data Science:** NPTEL
- **Python:** HackerRank
- **SQL:** HackerRank

Strengths
- Hardworking
- Critical Decision Thinking
- Leadership
- Communication Skills

Hobbies
- Reading
- Travel
- Painting and Sketching
- Music