RAJATH H M (Computer Science Engineering Student)

Location: Hassan, Karnataka

Email:hmrajath86@gmail.com

Education

2021-2025   **Malnad College of Engineering**

Bachelor of Engineering, Computer Science and Engineering.

CGPA: 9.20 (until 7th Sem)

2019-2021   **Masters PU College**
Pre-University, Percentage: 100

2018-2019   **Secondary School Leaving Certificate**, Percentage: 98.08

Work Experience

02/25-Present   **PLASMID**   **Bengaluru, Karnataka**

Intern: Data Science
- Working on data analysis projects using Python, Pandas, and Scikit-learn
- Gaining hands-on experience with real-world datasets, visualization tools, and model development.

10-11/2023   **Teccera Innovations**   **Hassan, Karnataka**

Intern: On Entrepreneurship
- Worked on developing Entrepreneurial models for Real world problems. Developed a model for E - Waste Management.

10-11/2022   **Malnad College of Engineering**   **Hassan, Karnataka**

Intern: On Web Development
- Worked on development of web applications using Frontend, Backend, Database Server.
- Researched and developed a Web application on Task Manager.

Projects

2025   **Online Retail Recommendation System**

- Engineered a robust recommendation engine on 540K+ retail transactions, achieving 3X improvement in prediction accuracy using collaborative, content-based, and SVD models.
- Generated 15K+ high-confidence product pairings, driving precision targeting and personalized shopping experiences.
- Uncovered top 10 global products and seasonal trends through advanced EDA, fueling smarter business decisions.

2024-2025   **Knee Osteoarthritis Detection and Severity Classification**

- Currently working on development of a machine learning based solution for Knee Osteoarthritis.
- We have used pretrained models like Xception, Inception Resnet v2, ResNet-50 & Dataset named Knee Osteoarthritis Dataset with Severity Grading to arrive at an efficient model and it is expected to be deployed soon by development of web application using python.

2023-2024   **Aptitude Driven Career Application**

This application helps users to get trained on aptitude questions for placement opportunities. It features:

- Frontend built with HTML and CSS for a user-friendly interface. Backend developed using Python to handle application logic and data processing. SQLite used for database management to store user profiles and career information.

Role: Designed and implemented the application's user interface and integrated backend functionalities.

2022   **Bank Management System**

- Implemented a doubly linked list for managing customer accounts and transactions. Developed features for account management, including secure login, balance updates, and data modifications.

Skills

Programming languages: C, C++, Java (OOP), Python.   **Data Structures and Algorithms.**
Web Development: HTML, CSS, JavaScript, MySQL**.**   **Software:** Windows, Linux (Ubuntu).

Professional Certifications

2024   **Career Essentials in Software Development - Microsoft and LinkedIn**

2023   **Soft Skill Development - NPTEL**