RAJATH H M

B.E in Computer Science & Engineering, 2025

Email   LinkedIn   Portfolio

Career Objective

Aspiring Software Development Engineer with hands-on experience in building real-world applications using C, Python, and web technologies. Passionate about solving problems, developing scalable systems, and contributing to impactful tech solutions.

Education

2021-2025	**Malnad College of Engineering**
	Bachelor of Engineering, Computer Science & Engineering.
	CGPA: 9.28
2019-2021	**Masters PU College:** Pre-University, Percentage: 100
2018-2019	**Secondary School Leaving Certificate**, Percentage: 98.08

Work Experience

02-05/2025   PLASMID: Intern Data Science — Bengaluru, Karnataka
- 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: Internship on Entrepreneurship — Hassan, Karnataka
- Worked on developing Entrepreneurial models for Real world problems. Developed a model for E - Waste Management.

Projects

2025   Customer Segmentation and Discount Strategies
- Executed customer segmentation using RFM analysis and clustering algorithms (KMeans, Agglomerative Clustering) to uncover actionable consumer insights.
- Designed an interactive Streamlit dashboard to support data-driven marketing strategies.

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.

2024-2025   Knee Osteoarthritis Detection and Severity Classification
- Worked 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.

2023-2024   Aptitude Driven Career Application
- This application helps users to get trained on aptitude questions for placement opportunities
- Role: Designed and implemented the application's user interface and integrated backend functionalities.

Skills

Programming languages: C, C++, Java (OOP), Python.   **Data Structures and Algorithms.**
Web Development: HTML, CSS, JavaScript, MySQL.   **Software:** Windows, Linux (Ubuntu).
Data Science Libraries: Pandas, NumPy, scikit-learn, matplotlib

Publication

2025   **Rajath H M, "Knee Osteoarthritis Detection and Severity Classification using Deep Learning", IJIRCCE**

Professional Certifications

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

2023   **Soft Skill Development - NPTEL**