P Janesh

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Professional Summary

Aspiring Software Engineer (B.Tech, CSE - AI & ML) with strong foundations in Data Structures & Algorithms, backend development using Java & Spring Boot, and practical experience in Python for ML. Proven project experience building optimization algorithms and full-stack systems. Aiming to build scalable, high-performance software systems by applying strong fundamentals in algorithms, backend development, and AI/ML-driven insights.

Education

B.Tech in Computer Science & Engineering (AI & ML) — Parul Institute of Engineering and Technology (PIET), Parul University
Expected Graduation: 2027 | Current Year: 3rd Year

Technical Skills

Languages: Java, Python, C
Frameworks & Libraries: Spring Boot, Flask, TensorFlow (basics), NumPy, Pandas
Databases & Storage: MySQL, PostgreSQL, MongoDB
Tools & Platforms: Git, Docker (basics), Linux, REST APIs, Maven
Core Concepts: Data Structures & Algorithms, OOP, Multithreading, System Design (foundations), Machine Learning fundamentals

Projects

ResuMatch VMS – AI-Powered Volunteer Management System
GitHub: github.com/JaneshPathipati/ResuMatch-VMS
• Built an AI-driven volunteer recruitment platform using Flask, GPT-4, and TF-IDF-based matching for intelligent resume-job pairing.
• Designed RESTful APIs, integrated Google Sheets sync, and managed MySQL/SQLite databases for real-time data handling.
• Implemented resume parsing, ML preprocessing, and a responsive web interface for streamlined volunteer management.

Combinatorial Optimization — GitHub: https://github.com/JaneshPathipati/Combinatorial-optimization
• Developed and evaluated optimization algorithms for combinatorial problems using Python and algorithmic design techniques.
• Implemented solution prototypes, conducted complexity analysis, and documented reproducible experiments.
Technologies: Python, NumPy, custom algorithm implementations

Achievements & Certifications

• Competitive programming / DSA practice (ongoing) | • Participated in hackathons and university projects

Relevant Coursework & Interests

Data Structures & Algorithms, Operating Systems, Database Systems, Machine Learning, Optimization, Web Development