MANISH M

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EDUCATION

Shri Madhwa Vadhiraj Institute of Technology and Management (SMVITM), Udupi

Bachelor of Engineering in Computer Science | CGPA: 7.6/10 **| Expected May 2026**

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Artificial Intelligence, Machine Learning, Generative AI, Web Technologies (MERN), Software Engineering.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, SQL (PostgreSQL, MySQL).
- **Frameworks:** React.js, Node.js, Express.js, FastAPI, Scikit-learn, Pandas, Tailwind CSS.
- **Tools:** Git/GitHub, Docker, Postman, Vercel, Netlify, Google AI Studio.
- **Key Concepts:** Generative AI (LLMs), REST APIs, Microservices, WebRTC, K-Means Clustering.

PROJECTS

AI-Powered Virtual Try-On & Stylist | *React, FastAPI, Google Gemini API* | Jan 2025 – Present

- Developed a GenAI virtual try-on system using the Google Gemini API to realistically swap user-selected clothing onto uploaded photos, enhancing the online shopping experience.
- Built a "Smart Stylist" engine that analyzes 3+ outfit choices to recommend the best option based on visual compatibility.
- Engineered a responsive React frontend for seamless image uploads and a FastAPI backend to handle concurrent AI synthesis requests.

F1 Telemetry & Strategy AI | *React, TypeScript, Gemini API, Scikit-learn* | Sep 2024 – Dec 2024

- Built an advanced analytics dashboard using FastF1 and Pandas to process race telemetry (speed, throttle, braking) and visualize driver performance gaps.
- Implemented K-Means clustering to categorize driving styles and integrated Gemini API to generate natural language "Race Engineer" reports summarizing strategy.
- Designed a high-performance frontend with React & TypeScript, using Recharts for real-time interactive data visualization.

AI-Powered Skill Bartering Platform | *MERN Stack, Python, WebRTC* | Jan 2024 – Present

- Architected a skill exchange platform enabling real-time chat and WebRTC video sessions for peer-to-peer learning.
- Developed a Python-based matching algorithm utilizing the Gemini API to pair users based on skill compatibility, availability, and expertise level.
- Deployed a scalable backend using Node.js/Express with PostgreSQL and Redis to ensure low-latency data handling.

CERTIFICATIONS & ACHIEVEMENTS

- Certifications: Full-Stack Web Development Bootcamp (Udemy), Intro to Machine Learning (Kaggle).
- Hackathon Finalist: Shortlisted in multiple college-level and online hackathons focused on AI & Full-Stack Development (2023–Present).