

K Manoj

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Professional Summary

Computer Science & AIML student passionate about AI automation, machine learning, and scalable software systems. Experienced in building AI-driven workflows using LangChain, LangGraph, and Make.com with hands-on expertise in ML pipelines, automation systems, backend development, and responsive web applications.

Education

Jain Institute of Technology

Davangere, Karnataka

Currently pursuing B.E in Artificial Intelligence & Machine Learning

2024 – Present

Current SGPA: 8.05

Technical Skills

Languages: Python, Java, C, SQL, JavaScript, HTML/CSS

Frameworks/Libraries: Bootstrap, LangChain, LangGraph

AI/ML: Machine Learning, AI Automation, MCP, Data Preprocessing

Tools: Git, GitHub, Make.com, VS Code

Databases: MySQL

Projects

PerkPlus Rewards Platform

GitHub Repository

- Developed a **customer rewards and engagement platform** focused on improving retention, user interaction, and loyalty management workflows.
- Designed **responsive frontend interfaces** and optimized UI rendering for seamless accessibility across multiple devices and screen sizes.
- Implemented **scalable backend architecture** with structured database integration for reward tracking, dashboard analytics, and transaction handling.
- Applied **modular software development practices**, reducing feature integration complexity by approximately **20%** and improving maintainability.
- Enhanced platform performance through optimized workflow execution and efficient **data management strategies**.

AIPL 2026 – Machine Learning Project

GitHub Repository

- Built an **ML-driven prediction system** using Python with preprocessing, feature engineering, and evaluation workflows.
- Performed **data analysis and experimentation** to improve prediction reliability and workflow efficiency.
- Optimized training pipelines through **iterative dataset refinement**, reducing model training time by approximately **18%**.
- Implemented automated **machine learning workflows** for efficient experimentation and model validation.

Online Quiz System

GitHub Repository

- Engineered an **interactive quiz management platform** with authentication, score tracking, and dynamic question handling.
- Designed a **normalized MySQL database schema** with optimized indexing for efficient concurrent query operations.
- Enhanced user experience through **responsive frontend design** and streamlined workflow interactions.
- Implemented backend connectivity supporting **real-time quiz operations** and scalable data management.

AI Automation Chatbot System

- Developed an **AI-powered automation ecosystem** using LangChain, LangGraph, and Make.com for multi-step workflow orchestration.
- Integrated **Model Context Protocol (MCP)** for secure API communication and intelligent external data handling.
- Implemented **retry mechanisms and fallback handling**, improving workflow reliability by approximately **25%**.
- Built intelligent **AI agent workflows** capable of automating complex decision-making and task execution processes.

Certifications

- MVP Workshop Completion Certificate** — PerkPlus Project Workshop
- GenAI Career Essentials in Generative AI** — Microsoft & LinkedIn
- AI Introduction to Artificial Intelligence** — LinkedIn
- Web Development: Build Your Own Static Website** — CCBP Academy