

SWEETY MAHALE

☎ +918109199478 ✉ sweetymahale23@gmail.com 💼 [LinkedIn](#) 🐙 [GitHub](#) </> [LeetCode](#)

SUMMARY

Experience in building AI-powered applications, intelligent automation systems, AI-integrated SaaS products, and Generative AI solutions for real-world business use cases. Strong interest in Machine Learning, Deep Learning, NLP, and Generative AI, with a passion for solving practical business problems using modern AI technologies.

EDUCATION

National Institute of Technology, Tiruchirappalli (NITT)

Trichy, Tamil Nadu

M.Sc. in Computer Science, 07.62 CGPA

2023 – 2025

Relevant Coursework: Data Structures & Algorithms, OS, OOP, DBMS, Python, AI & ML.

Govt. Holkar Science College, Indore

Indore, Madhya Pradesh

B.Sc. in Mathematics, Statistics and Economics, 81.14 %

2019 – 2022

Relevant Coursework: Statistical Techniques, Probability Theory, Time Series Analysis, R.

TECHNICAL SKILLS

Languages	Python, C++, SQL, JavaScript, HTML/CSS
AI/ML & Gen AI	Machine Learning, Deep Learning, NLP, Generative AI, LLMs, RAG, AI Agents
Frameworks & Libraries	FastAPI, LangChain, TensorFlow, Scikit-learn, Hugging Face, pandas, NumPy
Databases & Vector Stores	MySQL, PostgreSQL, MongoDB, FAISS
Tools & Technologies	Git, REST APIs, Jupyter Notebook, VS Code

EXPERIENCE

AI Engineer

Oct 2025 - June 2026

NovarsisTech Pvt. Ltd., Indore M.P.

- Developed and deployed **AI-powered** business solutions including conversational **chatbots**, workflow **automation systems**, and intelligent **SaaS** applications for client-specific requirements.
- Built custom AI integrations for websites and business platforms, incorporating **LLM**-powered features such as AI assistants, automated content generation, and conversational interfaces.
- Engineered rapid **MVPs for AI-driven products** by combining FastAPI, LangChain, vector databases, automation pipelines, and modern frontend/backend technologies.
- Collaborated on **end-to-end AI product development** including backend APIs, database design, deployment and cloud integration.

PERSONAL PROJECTS

Multi-Agent AI News Curation System | *Python, FastAPI, Gemini, PostgreSQL* | 🐙

- Built a multi-agent AI platform that automatically collects AI news from YouTube and RSS feeds.
- Implemented specialized LLM agents for summarization, relevance ranking, and personalized newsletter generation using Gemini.
- Built a scalable multi-tenant architecture with automated scheduling, email delivery, and an interactive React dashboard.

Loan Sanction Prediction System | *Python, Scikit-learn, pandas, Matplotlib, Docker* | 🐙

- Developed an end-to-end solution to automate the loan sanction process using Machine Learning techniques.
- Implemented classification algorithms (achieved accuracy of **89.5%**) to predict loan approval status and regression models to estimate sanctioned loan amounts.
- Performed data preprocessing, feature engineering, and analysis using Python (NumPy, Pandas, Matplotlib).
- Improved decision-making efficiency by reducing manual effort and accelerating loan processing time.