

# SUMIT MANGESH NAWDE

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## Education

Ramrao Adik Institute of Technology, D. Y. Patil University

B.Tech in Computer Engineering

CGPA: 8.65 / 10

Navi Mumbai, India

2022 – Present

## Projects

SynapseHome | AI-Powered Smart Energy Management System

Oct 2025

- Engineered a full-stack AI-powered energy management and Monitoring system using React.js, Flask, Javascript and Python to optimize household energy flow of both Govt grid energy and Natural energy.
- Implemented machine learning models for energy forecasting and a real-time decision engine for automated energy flow optimization; Created a user-friendly dashboard with analytics to visualize live data, manage settings, simulate scenarios, and track performance KPIs. (GitHub Link)

NeoPaathshaala | AI-Powered Teacher's Assistant

July 2025

- Engineered a full-stack AI-powered web application using React.js, FastAPI, and Google Gemini API to generate complete, grade-specific lesson kits; reduced planning time by 80%, selected as a **Finalist** in the **Google Cloud Agentic AI Day Hackathon**.
- Integrated voice command support and optimized real-time content generation using Google Imagen API and Firebase for seamless user experience. (GitHub Link)

SportMatrix | AI-Powered Football Performance Analysis System

Sep 2024

- Developed a sports analytics dashboard using Flask with interactive visualizations for real-time performance analysis and suggestions; implemented TOPSIS for player ranking and a Decision Tree model achieving **97% accuracy** in predicting optimal team formations.
- Optimized data processing and visualization pipeline using Pandas, NumPy, and Matplotlib, improving analytics speed by 30%. (GitHub Link)

Xboard | Automated Excel Dashboard Generator

Jun 2025

- Engineered an intelligent web tool that auto-generates professional Excel dashboards from raw datasets; automated data cleaning, chart generation, and Excel export using Python, Pandas, and OpenPyXL.
- Enhanced visualization by embedding histograms and bar plots using Matplotlib and Seaborn for improved insights. (GitHub Link)

ExploreEcho | Travel Recommendation System

Feb 2024

- Developed a dynamic travel recommendation system using Flask and Jinja for personalized destination suggestions based on budget, location, and season.
- Implemented filtering logic and integrated real-time rendering of short travel blogs to enhance user experience. (GitHub Link)

## Certifications

- Career Essentials in Data Analysis and Business Analysis – Microsoft & LinkedIn
- AWS Academy Graduate - Cloud Architecting
- Analyzing and Visualizing Data with Power BI – edX
- AWS Cloud Practitioner – edX
- Prompt Engineering for Generative AI – Great Learning
- Virtual Experience Programs: Deloitte (Data Analytics), Goldman Sachs (Software Engineering)

## Achievements

- Finalist** – Google Cloud Agentic AI Day Hackathon (2025) for developing NeoPaathshaala, an AI-powered web app for educators.
- 4th Place** – RAIT Technovate Project Competition (2025) with SportMatrix, an AI-powered football analytics system.
- District-Level Player** – Competed in Football, Table Tennis, Volleyball, and Relay (Thane Division, 2022).
- Volunteer** – RAIT TechFest 2024; contributed to successful event execution.

## Technical Skills

**Languages:** Python, C++, SQL

**Web Development:** HTML, CSS, JavaScript, Flask, Django, React.js, Tailwind CSS

**Data Engineering:** Data Analysis, Data Processing, Data Visualization, Data Warehousing

**Machine Learning:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, ML Algorithms

**Core CS:** Data Structures & Algorithms, DBMS, OS, Networking, System Design

**Cloud & Tools:** AWS Cloud Practitioner, Git, OpenPyXL, Chart.js, Power BI, Tableau