

Sarthak Ghodke

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Professional Summary

AI/ML Engineer with strong expertise in Data Structures, Algorithms, and Object-Oriented Programming. Hands-on experience in developing machine learning pipelines, NLP systems, and AI-based healthcare solutions using ML, LLMs, and AI Agents. Proven ability to build scalable, data-driven applications that solve real-world problems. Actively seeking roles in AI/ML and Data Science.

Technical Skills

Programming: Python, SQL, PL/SQL, Java(Basic)

AI/ML: Machine Learning, NLP, Deep Learning, RAG, Generative AI, LLM, Feature Engineering

Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, NLTK, Flask

Data Structures: Arrays, Linked Lists, Trees, Graphs, Recursion, Dynamic Programming

Databases: MySQL, Oracle

Tools: Git, GitHub, VS Code, Jupyter, Power BI

Core Concepts: OOP, SDLC, Problem Solving

OS: Windows, Linux

Projects

AI-Driven Symptom Analysis and Disease Prediction Assistant for Healthcare Sep 2024 – Mar 2025

Python, ML, NLP, Flask, SQL, Oracle Cloud

- Developed AI-based healthcare assistant to predict diseases from symptoms.
- Built ML pipeline using Random Forest with preprocessing and feature engineering.
- Designed chatbot interface for collecting symptoms and medical data.
- Integrated SQL database for storing patient history and predictions.
- Achieved 83% accuracy and reduced manual diagnosis effort.

Terrorism Incident Prediction and Analysis System

Dec 2025 – Jan 2026

Python, Machine Learning, Pandas, Scikit-learn

- Developed predictive model to analyze historical terrorism dataset and identify risk patterns.
- Performed data preprocessing, feature engineering, and exploratory data analysis.
- Applied classification algorithms to predict attack likelihood.
- Evaluated model using accuracy, precision, and recall metrics.

AI-Powered Document Question Answering System (RAG-based)

Python, LangChain, FAISS, Hugging Face, Mistral AI, NLP

Mar 2026

- Built an end-to-end RAG-based system to answer queries from PDF documents using LLMs
- Developed document pipeline with PyPDFLoader and text chunking, and generated embeddings using Hugging Face (MiniLM)
- Implemented FAISS vector database with advanced retrieval (Similarity Search MMR) for improved relevance
- Integrated Mistral LLM with prompt engineering and designed preprocessing pipeline for accurate, context-aware responses

Internship

Mahendra Technosoft Pvt. Ltd

Jan 2024 – Feb 2024

Web Development Intern

- Studied CRM systems and their real-world business applications.
- Gained understanding of SDLC phases including requirement analysis and testing.
- Worked in Agile-based development environment.

Education

Bachelor of Engineering (B.E.) – Artificial Intelligence and Data Science

Dr. D. Y. Patil College of Engineering and Innovation, Pune

Aug 2021 – Apr 2025

CGPA: 7.36 / 10

HSC (12th)

Mar 2021

Madhyamik Vidyalaya and Junior College, Rahuri

Percentage: 76.50%

SSC (10th)

Mar 2019

Madhyamik Vidyalaya and Junior College, Rahuri

Percentage: 76.60%

Certifications

- **Python for Data Science — NPTEL**

Aggregate: 54/100 — Key Skills: Data Science, Python, Data Visualization, Big Data Analytics

[View Certificate](#)

- **Oracle Cloud Infrastructure 2025 Certified Data Science Professional**

Certificate ID: 102366060OCI25DSOCP

Valid Until: Aug 2027

[View Certificate](#)

- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional**

Certificate ID: 323443970OCI25GAIOCP

[View Certificate](#)

- **Oracle Analytics Cloud 2025 Certified Professional**

Certificate ID: 102366060OCIEA25OCP

[View Certificate](#)

- **SQL, MySQL, PostgreSQL & MongoDB — Udemy**

Certificate ID: UC-402f3aa6-79b5-4380-9926-a59649de1e88

[View Certificate](#)

Leadership & Activities

Student Council Coordinator — Dr. D. Y. Patil College of Engineering and Innovation

- Bridged communication between students and administration.

- Organized student-led initiatives and council meetings.

Extra-Curricular: Cricket, Kabaddi, Indoor Games; Social Activities Secretary (2nd Year)