

# Siddhant Yenpure

Pune, India

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## Summary

Aspiring Data Scientist and Machine Learning Engineer with a strong foundation in Python, Java, and SQL. Passionate about building intelligent systems that solve real-world problems using machine learning, deep learning, and data analytics. Experienced in developing predictive models, NLP applications, and AI-driven solutions. Seeking to contribute to Barclays through data-driven insights, innovative solutions, and collaborative teamwork. Passionate about cosplay and creative craftsmanship (hand crafting physical to-scale replicas/props/costumes).

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## Technical Skills

- Programming Languages: Python (Pandas, NumPy, Matplotlib, OpenCV, Flask), C/C++, Java, HTML, CSS, Bootstrap
- Database Management: SQL (MySQL)
- Other Tools: TensorFlow, Keras, Data Visualization (Matplotlib)

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## Key Projects

### Emergency Vehicle Alert System (RFID-based Traffic Control)

- a) Description: Developed an IoT-based traffic management system using Arduino, RFID, and Servo motors to prioritize emergency vehicles at traffic junctions.
- b) Key Features:
  1. Implemented RFID-based detection of emergency vehicles to switch traffic signals dynamically.
  2. Controlled traffic lights using digital I/O operations and timing logic for smooth traffic flow.
  3. Ensured real-time responsiveness with millisecond-level signal updates.

- c) Technologies Used: Arduino, RFID Module, Servo Motors, C++, Embedded Systems.

## Credit Card Fraud Detection using Machine Learning

- a) Description: Built a fraud detection system using Random Forest, Decision Trees, and Neural Networks for accurate transaction classification.
- b) Key Features:
  - 1. Achieved high fraud detection accuracy by applying feature normalization and correlation analysis.
  - 2. Implemented confusion matrix evaluation and various ML models to compare precision, recall, and F1-score.
  - 3. Developed a robust classifier using Scikit-learn, Pandas, NumPy, and Keras.
- c) Technologies Used: Python, Scikit-learn, NumPy, Pandas, TensorFlow/Keras, Jupyter Notebook.

## Automated Transcript Generation & Summarization from Recorded Lectures

- a) Description: Designed a Flask-based web app to transcribe and summarize recorded lectures using Whisper AI and Sumy NLP.
- b) Key Features:
  - 1. Extracted audio from video files using FFmpeg.
  - 2. Applied Whisper AI for speech-to-text transcription.
  - 3. Implemented LSA-based text summarization for concise lecture notes.
  - 4. Enabled web-based user interaction via Flask.
- c) Technologies Used: Python, Flask, Whisper AI, Sumy NLP, FFmpeg, HTML/CSS, JavaScript.

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## Education

Vishwakarma Institute of Technology, Pune  
B.Tech in [AI&DS] | CGPA: 9.1 | 2023 – 2027

Dr. Kalmadi Shamarao Junior College, Pune  
HSC | 82.50% | 2023

Abhinava Vidyalaya English Medium High School, Pune  
SSC | 88.8% | 2021

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## Certification

- Introduction to Artificial Intelligence (2023) – Completed on Dec 06, 2024  
Skills: Artificial Intelligence for Business, Artificial Intelligence (AI)
- What Is Generative AI? (2023) – Completed on Dec 06, 2024  
Skills: Generative AI Tools, Artificial Intelligence (AI), Generative AI

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## Additional Information

- Open to opportunities in data science, machine learning, AI, and software development roles.
- Strong analytical and problem-solving skills, with a focus on data-driven decision-making and AI-powered solutions.
- Passionate about cosplay and creative craftsmanship, showcasing attention to detail and innovation.
- Winner of the Comic Con Pune Cosplay Contest (Day 2, 2025), demonstrating dedication, creativity, and perseverance.
- Winner of the Crossword Cosplay Contest (June 2025).
- Winner of PAX Cosplay Contest (July 2025).
- Effective communicator and team player, committed to delivering high-quality solutions in dynamic and technical environments.