

Pratik Chougule

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🎯 Objective

Passionate and driven Computer Science student with a specialization in AI/ML. Skilled in building intelligent systems and real-time applications, with a focus on solving practical problems through innovation and technology.

🎓 Education

B.Tech in CSE (AIML) 2022 – 2026
D.Y. Patil College, Kolhapur, India
Relevant Topics: Artificial Intelligence, Machine Learning, Data Structures, Algorithms, Database Management Systems, Python, Java
Current CGPA: 8.46/10

HSC 2021 – 2022
Secondary School and Jr. College, Bhilwadi, India
Relevant Topics: Physics, Chemistry, Mathematics
Score: 69.33%

SSC 2019 – 2020
Hutatma Bhagatsingh Highschool, Ankalkhop, India
Highlights: Ranked in top 10 of the batch.
Score: 90.20%

🔧 Projects

Real-Time Note Detection Tool in Music

Technologies: Python, TensorFlow, Librosa, STFT

Description: Developed a tool that detects musical notes in real-time with high precision. The system analyzes incoming audio signals and predicts note sequences.

- Achieved **95.67% accuracy** in detecting notes across various musical genres.
- Built using convolutional neural networks (CNNs) for pattern recognition.

VirtuHire: VR and AI-Based Virtual Interview System

Technologies: Unity, OpenAI, TensorFlow

Description: A VR platform that simulates realistic job interviews, leveraging AI for question generation and performance evaluation.

- Created an immersive VR environment to mimic interview scenarios.
- Integrated **speech analysis algorithms** to assess candidate confidence and clarity.
- Provided detailed feedback reports using ML-based analytics.
- Recognized as **Best Academic Project (Semester V)**.

🏆 Extracurricular Activities

👤 Oculus Coordinator, AR/VR Club (2023 – Present)

Led workshops and events, training over 50 students on AR/VR applications and development tools like Unity.

🏆 First Prize, Poster Presentation Competition (2024)

Presented innovative poster on the Activation functions backbone of neural network, winning recognition in the AIML Department.

🌟 Certificates

Deep Learning – IIT Ropar (SWAYAM-NPTEL)

Nov 2024: Ranked in the **Top 2%** among 23,572 participants. Covered advanced topics like CNNs, RNNs, Attention Mechanisms, and Optimization Algorithms.

Database Management System – IIT Kharagpur (SWAYAM-NPTEL)

Oct 2024: Studied RDBMS, SQL, Query Optimization, Transaction Management, and Concurrency Control.

Pandas - Kaggle Learning

Nov 202:

💻 Skills

Programming Languages: Python, Java, JavaScript, C

Machine Learning: Deep Learning, TensorFlow, Keras, Scikit-learn

Web Development: React, HTML, CSS, JavaScript, Node.js

Tools: Git, Kaggle, Librosa, STFT, Figma

Algorithms & Data Structures: Proficient in problem-solving and debugging

Frameworks: Flask, Django

🌐 Languages

English: Fluent

Hindi: Fluent

Marathi: Native

😊 Hobbies

🏊 Swimming

🍳 Cooking

🎤 Singing