

# 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