

# PRACHI CHAVHAN

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## Education

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### **Veermata Jijabai Technological Institute (VJTI)**

*B.Tech in Computer Engineering*

**Aug 2023 – Present**

*Mumbai, India*

### **New English Junior College**

*HSC - PCM (85%) — MHT-CET: 96.83 percentile*

**Aug 2021 – May 2023**

*Mumbai, India*

## Projects

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### **Deepfake Detection System** | *Python, PyTorch, TensorFlow/Keras, CNNs, Transfer Learning, Image Processing*

**Aug 2025 – Present**

- Developed a CNN-based deepfake detection model using ResNet50 in Keras to identify AI-generated face images.
- Preprocessed and augmented the Human Faces dataset (real vs AI-generated) using resizing, normalization, flips, rotations, and zoom to enhance robustness.
- Trained the model over multiple epochs, tuned hyperparameters, and monitored performance metrics to optimize accuracy and reduce overfitting.
- Implemented binary classification with the Adam optimizer and binary cross-entropy loss, achieving 92% accuracy.

### **Skill Hiring Platform** | *React, HTML, CSS, Firebase, OpenCV, Machine Learning, Python, REST APIs, Git, GitHub*

**Jan 2025**

- Collaborated with a team during We Hack 2025 to build a platform connecting skilled individuals with potential employers.
- Developed a responsive frontend using component-based React architecture.
- Integrated Firebase for user authentication and real-time database management.
- Managed API integration for dynamic user profile data retrieval, updates, and validation.

### **Vendor Quality Management Platform** | *React, Firebase, Node.js, REST APIs, Vercel, GitHub*

**Jun 2025 – Jul 2025**

- Created a secure web app for vendors to manage quality checks and supplier information.
- Designed a responsive React frontend with role-based access features.
- Implemented Firebase Firestore for authentication and real-time data storage.
- Built and deployed Node.js REST APIs on Vercel to handle dynamic supplier data.

## Technical Skills

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**Languages:** C++, Python, HTML, CSS

**Frameworks/Libraries:** React, TensorFlow, PyTorch, OpenCV, NumPy, Pandas

**Databases:** MySQL, Firebase Firestore

**Tools:** VS Code, Git, GitHub, Google Colab, Kaggle

## Positions of Responsibility

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Led a 4-member team during a hackathon, overseeing full-stack development and ensuring timely project delivery from concept to demo.

Mentored juniors on a Machine Learning project under Inheritance CoC, VJTI, providing guidance on implementation, best practices, and problem-solving.