

# Ruchir Makarand Adnaik

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## Summary

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A highly motivated Computer Engineering student with a strong foundation in software development, artificial intelligence, and cybersecurity. Passionate about building AI-powered applications, secure authentication systems, and NLP solutions. Experienced in developing projects such as object classification using Teachable Machine, two-factor authentication systems, real-time language translation apps, and textual entailment for NLP. Seeking opportunities to apply my technical expertise in AI/ML, natural language processing, and software development to solve real-world problems.

## Education

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Vishwakarma University, Pune

2021 –2026

Bachelor of Technology in Information Technology

GPA: 7.53/10

## Technical Skills

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### Programming Languages:

Python

### Machine learning & AI:

Google teachable machine, tensorflow, keras, scikit-learn

Object classification, textual entailment in nlp, real-time predictions

Natural language processing (nlp)

### Frameworks & Tools:

TensorFlow (for machine learning models)

## Projects

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### 1. Teachable Machine - Object Classification

Developed an object classification system using Google's Teachable Machine. Trained the model with user-uploaded images and deployed it for real-time object classification using TensorFlow and OpenCV, providing predictions for objects shown in front of the camera.

### 2. Multilingual Translator App

Built a real-time language translation application using Google Translate API and Python. The app detects input language automatically and provides translations for multiple languages, enhancing communication and language learning.

### 3. Textual Entailment Recognition (NLP Project)

Developed a Textual Entailment system using NLP to classify sentence pairs as entailment, contradiction, or neutral. Used the SNLI dataset (570,000 pairs) and Transformer-based embeddings (e.g., Sentence-BERT) with an MLP classifier for efficient semantic processing and logical relationship detection.