

# Saif Rathod

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## EDUCATION

### MARWADI UNIVERSITY

BTECH IN COMPUTER SCIENCE

Expected Grad: 2026 | Rajkot, India

### KENDRIYA VIDYALAYA

Grad. May 2022 | Porbandar, India

## LINKS

Github: [Saif-rathod](#)

Leetcode: [Saif Rathod](#)

LinkedIn: [saif-rathod](#)

Portfolio: [saifrathod.me](#)

## UG COURSEWORK

Data Structure and Algorithms

Cloud Computing

Operating Systems

Database Management System

Computer Architectures and Systems

Object Oriented Programming

Advance Java Technology

Advanced Web Development

Artificial Intelligence + Practicum

## SKILLS

### PROGRAMMING

Programming Languages: Python • Java • JavaScript • C++

DSA: Sorting • Searching • Dynamic Programming • Graph • Trees • Hashing.

Machine Learning: Artificial Neural Networks • Classification • Computer Vision • NLP.

Data Analysis • Data Visualization • Data Cleaning and Transforming.

Front-end Technologies: HTML • CSS • React • Angular

Back-end Technologies: Django • FastAPI • Flask • NodeJs • Php

AppDev: Flutter

Competitive Programming • OOPs

Database Management: MySQL • RDBMS • PostgreSQL • MongoDB(noSql)

### Interpersonal Skills:

Team Leadership • Communication and Presentation Skills • Teamwork and Collaboration

## EXPERIENCE

### AI SUGGESTED | AI WEB DEVELOPER

May 2024 – Sep 2024 | Remote

- Added more than **100 AI tools** to the Website.
- Which helped to increase the reach to **40 percent** for the new Phoenix platform.

### CODECLAUSE | AI-ML INTERN

Oct 2023 – Dec 2023 | Remote

- Worked on developing Machine Learning and Computer Vision Projects.
- Enhanced model performance through data-driven fine-tuning.

## PROJECTS

### GPTX:

- Built **10.8M**-parameter Bigram LM with character embeddings achieving **1.07/1.48** train-val loss over **5K CUDA** iterations.
- Engineered 8-token context model with **32**-token batches for **501**-token Shakespearean text generation via softmax sampling.

### MAGICCALC:

- Developed a **Web-based tool** that visualizes **math** problems and provides solutions.
- Utilizing **FastAPI** and **Gemini API**, a system for dynamic solution visualization, seamlessly integrated with a **Vite** and **React** frontend.

## EXTRACURRICULAR ACTIVITIES

### YUVA SANGAM EXPOSURE PROGRAM

- Engaged with Hon'ble **Governor Shri K. T. Parnaik** on tourism development initiatives.
- Represented Gujarat delegates and delivered a **speech at Raj Bhavan, Arunachal Pradesh**.

## CERTIFICATIONS

- AI For Everyone - DeepLearning.AI
- Supervised Machine Learning - Coursera
- Advanced Machine Learning Algorithms - Coursera
- Data Structures - University of California