

# Pratik Pakhale

Computer Science and Engineering  
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## EDUCATION

### • Indian Institute of Information Technology, Dharwad

2021-2025

5th Semester. Bachelor of Technology, Computer Science and Engineering

## EXPERIENCE

### • Affect Aware System and QGIS LMS Platform

Research Intern and Developer

IIT Bombay

- Developed an **advanced learning system** utilizing video bots for enhanced student engagement.
- Implemented an adaptive feedback platform using React & ExpressJS, a Flask server running the deep learning model, and improved learning outcomes.
- Built a software that can be executed locally using **Docker** or through an **Electron installation**.
- Working on GeoGuru, a Learning Management System that incorporates a geographical information system. Working as the **lead backend developer** to build a scalable APIs.

### • VIKRAM - Arthlex Research Private Limited

Lead Developer

Remote

- Directing the building process of vikrambots.ai, a platform that allows creation and sharing of bots powered by LLMs.
- Managed AWS EC2 hosting and DevOps, integrated NextJS with Typescript, Flask with Langchain, and Weviate Vector Database.

### • IKS Text Analytics

Research Intern

IIIT Dharwad

- Executed successful data scraping of significant texts such as Bhagavad Gita, Vedic Hymns, Vedantas, and Ramayana in different languages, and used an effective **data mining algorithm using FP growth** in Scala, leading to the generation of associated rules after detailed pre-processing.
- Constructed an **interactive client-side web platform** that showcases results through comprehensive graphics.

## PERSONAL PROJECTS

### • Rewind

A social media platform powered with generative AI technologies solely built for music lovers.

- Primarily developed an AI-driven social media platform catered to music enthusiasts using TypeScript Node, React, and Python.
- Spearheaded the design and implementation of a **voice bot for enhanced website interaction**, including post-creation and advanced search functionalities.

### • Event Management

The complete event management website for club events from registering to ticketing.

- Solely created a one-stop online platform for managing club events, including registration and ticketing, using MERN stack, TailwindCSS, and Netlify Lambda.
- Successfully maintained flawless operation handling over 100k API calls.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** TypeScript, JavaScript, Python, Java, C, C++, SQL, HTML, CSS, and Shell Scripting.

**Tools:** Docker, GitHub Actions, AWS and respective workflows

**Frameworks:** Nextjs, ReactJs, NextJs, NodeJs, Flask

**Databases:** Vector, SQL, No-SQL

## ACHIEVEMENTS

• **Global Hackathon Winner** - Postman Go with the Flow Hackathon

• **Shark Tank IIIT Dharwad Winner** - Pitched DevForces a platform to host development competitions.

## POSITIONS OF RESPONSIBILITY

• **President:** Velocity - Web and App Development Club

Managed the teams, campus projects and events held across the institute.

• **Student Leader:** Postman Inc.

• **Campus Rep:** Buildspace