

# Pratik Pakhale

Computer Science and Engineering  
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## EDUCATION

- **Indian Institute of Information Technology, Dharwad** 2021-2025  
*7th Semester (8.18 CGPA), Bachelor of Technology in Computer Science and Engineering*

## EXPERIENCE

- **Google Summer of Code | PEcAn Project** [↗](#) 2024  
*Contributor* Remote
  - Integrated JSON data schema (management-event-schema) into PEcAn's FieldActivity R Shiny application, enabling it to read variable information from the schema and store management activity data in a compliant and flexible manner.
  - Built an **individual JSON Schema parser** and then integrated it in the main app. Also worked on storing multiple incidents for specific management cases, enhancing the data structure to support complex scenarios.
- **IIT Bombay | Affect Aware System and QGIS LMS Platform** [↗](#) 2023  
*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. This software that can be run locally using **Docker** or through an **Electron installation** for portability.
  - Working on GeoGuru, a Learning Management System that incorporates a geographical information system. Working as the **lead backend developer and handling DevOps** to build a scalable APIs.
- **VIKRAM - Arthlex Research Private Limited** [↗](#) 2023  
*AI Architect* Remote
  - Directed the building process of vikrambots.ai, a platform that allows the 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**.
- **Additional Experience**  
*Other notable experiences*
  - Co-founder and CEO of **DevForces**. Making competitive development more fun and rewarding. [↗](#)
  - Research Intern - **IKS Text Analytics**. Data mining algorithm using PFP growth [↗](#)
  - Project Lead - **Institute Website IIIT Dharwad**. Led a team of 15 developers and designers using the Agile framework to build the new college website. [↗](#)

## PERSONAL PROJECTS

- **vChar** [↗](#)  
*The AI researcher which researches across web to find the solution you are looking for*
  - Developed the **RAG application** completely local and with in-house tools for agents to use.
  - Used llama3 and mixedbread embeddings for RAG, built a low-latency browser API for faster web querying and more.
- **Rewind** [↗](#)  
*A social media platform powered with generative AI technologies solely built for music lovers.*
  - Developed an AI-driven social media platform catered to music enthusiasts using TypeScript Node, React, and Python.
  - Led 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.*
  - Independently developed a comprehensive event management platform using the MERN stack, TailwindCSS, and Netlify Lambda, enabling seamless club event organization, registration, and ticketing processes.
  - Successfully maintained flawless operation handling over **100k API calls**.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** TypeScript, JavaScript, Python, R, Java, C, C++, SQL, HTML, CSS, Shell Scripting.  
**Tools:** Docker, GitHub Actions, AWS

**Frameworks:** NextJS, ReactJS, NestJS, NodeJS, Flask  
**Databases:** Vector, SQL, No-SQL

## ACHIEVEMENTS

- **Global Hackathon Winner** - Postman Go with the Flow Hackathon [↗](#)
- **Shark Tank IIIT Dharwad Winner** - Pitched DevForces

## POSITIONS OF RESPONSIBILITY

- **President: Velocity - Development Club** Managed the teams, campus projects, and events.
- **Postman Student Leader:** Promoted API Literacy on my campus and hosted fun events like API Treasure Hunt
- **Buildspace Campus Rep:** The campus representative for Buildspace's Nights and Weekends