# Piyush Rajendra Sangale

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## Education

**Indian Institute of Technology Mandi** — **2025**
Bachelors of Technology in Electrical Engineering — CGPA - 7.81/10

**Cambridge High International School and Junior College, Shrirampur** — **2021**
Class 12 — Maharashtra State Board of Secondary & Higher Secondary Education — Percentage - 95.67%

**Dahanukar English Medium School, Tilaknagar** — **2019**
Class 10 — Maharashtra State Board of Secondary & Higher Secondary Education — Percentage - 89.20%

## Skills

- **Fullstack Devlopment(MERN)**
- **Programming Languages** : C++, Python
- **AWS Tools** : S3, Cloudfront, MediaConvert
- **Web Development** :JavaScript, Node.js, React.js, Express.js
- **Database** : MySQL, PostgreSQL, MongoDB
- **Algorithms & Data Structures** : Expertise in algorithm design, time and space complexity optimization
- **Operating Systems & System Design**
- **REST APIs & API Authentication**
- **Artificial Intelligence & Machine Learning**
- **Soft Skills**: Problem solving, teamwork, strong communication, adaptability, and quick learning

## Experience

**Software Engineer Intern** — **Jun - Dec 2024**
Roundglass — Mohali, India

- Integrated video and audio services into the RG Media Service using AWS(Amazon Web Services), enhancing content management for RG Living and other products.
- Reduced dependency on third-party services by building high-performance in-house solutions, saving $4,000 annually.
- Upgraded audio service architecture to support high-resolution audio, enhancing user experience across all products

## Projects

**Phonopedia (GitHub)(Deploy link) | MongoDB, ExpressJS, ReactJS, NodeJS** — **May - Jun 2024**

- Developed a MERN stack web application showcasing top smartphone deals, facilitating device comparisons, and fostering user engagement through a community platform.
- Implemented key features to display the latest smartphone deals, enable detailed side-by-side comparisons of devices, and create a community page for users to join device-specific groups, post updates, and provide feedback.
- Architected a responsive front-end with React and Tailwind CSS, integrated with Node.js and Express.js backend services, and MongoDB/Mongoose for efficient data handling; enhanced page load speed by 25%.

**Video Streaming Website (GitHub Repository) | ReactJS, Rapid API, HTML, CSS, Javascript** — **Sep - Oct 2023**

- Developed a responsive front-end React app, ensuring an intuitive, fast, and interactive user interface.
- Integrated Rapid API for fetching video content and search results, optimizing real-time data retrieval and enhancing user interaction.
- Implemented React Router for seamless navigation between pages, creating a smooth user experience across multiple devices.

**Weather Prediction through images (GitHub Repository) | Python, TensorFlow, Keras, OS, Shutil** — **Sep - Nov 2022**

- Designed a simple and intuitive user interface to allow users to interact with the model and obtain weather predictions from custom images
- Constructed a CNN architecture using TensorFlow and Keras, allowing the model to effectively learn intricate patterns and features within the images, essential for accurate weather prediction
- Trained a deep learning model to differentiate between weather conditions based on visual data; this innovative approach enabled rapid forecasting, impacting decision-making for over 11 different weather conditions.

## Achievements

- **Codeforces (Profile Link):** Rating 1026
- **Codechef (Profile Link):** Rating 1457
- **GeeksForGeeks (Profile Link):** Ranked 12th in Institute | Solved over 500 problems