





# APOORV SAXENA

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## EDUCATION

### G L Bajaj Institute of Technology and Management

Bachelor of Technology, Computer Science and Engineering

2021 - Present

Greater Noida

## PROJECTS

### VidSense | JavaScript, HTML/CSS, Flask, Python, Hugging Face Inference API

- Built a Chrome extension to get the answer to a question, or get a summary; based on the YouTube video in the current tab.
- Successfully deployed and published the extension to the Chrome Web Store and Microsoft Edge add-ons store, expanding its reach to a broader audience.
- Utilized the youtube-transcript-api to extract video captions and developed a local Flask server for the Chrome extension, to handle the active tab URL as a request and provide the transcript as a response.
- Implemented summarization using *facebook/bart-large-cnn* and question-answering using the *deepset/roberta-base-squad2* models respectively and configured model parameters to align with my specific use-case.
- Enhanced user experience with batch script files for easy usage, eliminating the need for manual setup.

### Mimir: Remote Control | JavaScript, Node.js, HTML/CSS, RobotJS

- Developed a multi-purpose utility for remote control functionality across devices on the same local network.
- Created an intuitive interface to connect to a device by entering the IP address and control the host device virtually through a web app.
- Implemented functionality for 3 usage scenarios- allowing the web app to function as a keyboard, trackpad or gamepad.
- Created a *Node.js* server to receive input requests from the web app and perform the corresponding action on the host device.
- Used the *RobotJS* library to emulate the user input on the host device.

### Workout Amigo | JavaScript, Node.js, Express.js, MongoDB, HTML/CSS

- Created a comprehensive full-stack website dedicated to recording and managing your workout routines.
- Implemented robust API routes for posting, updating, deleting, and retrieving workouts.
- Designed a user-friendly interface, ensuring a smooth and intuitive interaction with the website.
- Employed *MongoDB* with *Mongoose* for the database, while utilizing *Express.js* and *Node.js* for the server. The frontend interface was developed using a combination of HTML, CSS, and React.

### Leaf Disease Detection using Image Classification | Python, Keras, TensorFlow, Kaggle, Gradio

- Used a convolutional neural network for leaf disease detection through image-processing.
- The CNN model consisted of three convolutional layers, max-pooling, flattening, dense layers with dropout, and an output layer for multi-class classification.
- Trained the model on a dataset of 10,000 training and 1,000 testing images from Kaggle.
- Leveraged the *Gradio* python library, to create a web-based interface for interaction with the detection system, enhancing user accessibility.

### Live Weather | HTML/CSS, JavaScript, OpenWeatherMap API

- Developed a website to check the current weather details at the entered location.
- Integrated *OpenWeatherMap API* to fetch real-time weather data.
- Designed a simple and appealing interface, keeping responsive design principles in mind to ensure optimal performance.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Python, HTML/CSS

**Developer Tools:** Google Colaboratory, GitHub, Postman

**Technologies/Frameworks:** Node.js, Express.js, MongoDB, React, Flask, Git

## EXTRACURRICULAR

### Chrome Web Store

Registered Browser Extension Developer

2023 - Present

Google Chrome

- Led my team to a solid second-place finish at the regional hackathon held by Google Developer Students Club.
- Developed a prototype version of the VidSense extension under time-bound circumstances.

### GDSC Dev-On

1st Runner-Up, Team Lead

December, 2023

GL Bajaj Institute of Technology

- Led my team to a solid second-place finish at the regional hackathon held by Google Developer Students Club.
- Developed a prototype version of the VidSense extension under time-bound circumstances.

### Smart India Hackathon

Round 2 Qualifier, Team Member

September, 2023

G L Bajaj Institute Of Technology

- Was responsible for developing the CNN model to classify images.
- Managed to qualify the internal hackathon and advanced to the second round.