Apoorv Saxena

apoorv.sxna@gmail.com | Portfolio | linkedin.com/in/apoorvsxna | github.com/apoorvsxna | leetcode.com/apoorvsxna

Education

G L Bajaj Institute of Technology and Management **2021 - Present**
Bachelor of Technology, Computer Science and Engineering *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 **2023 - Present**
Registered Browser Extension Developer *Google Chrome*

- Successfully built and deployed 2 extensions.

GDSC Dev-On **December, 2023**
1st Runner-Up, Team Lead *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 **September, 2023**
Round 2 Qualifier, Team Member *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.