Akash Singh

Email: akashsingh2210670@gmail.com Portfolio Mobile: +91-938-259-8086

Bengaluru, India

2022 - 2026

2020-2022

Siliguri, India

Github: Akash-Singh04

EDUCATION

Dayananda Sagar College Of Engineering

Bachelor of Engineering-Computer Science And Engineering;

Delhi Public School

12th Standard: CGPA: 9.6

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript

Frameworks And Libraries: Flask, NodeJS, ExpressJS, React, NextJs, BootStrap5, TailWind

Databases And Tools: MongoDB, MySQL, SQLite, Git, Github, Firebase

Projects

ullet Quiz Quest |NextJs, Typescript, Firebase | GitHub | Website :

- The project facilitates administrators in attempting quizzes and managing quiz data, including scores, completion times, and specific quiz details along with allowing users to create quizzes from Excel Sheets.
- o Developed with **Next.js** and **TypeScript**, the project incorporates server-side rendering, seamless routing, strong typing, and improved code maintainability for an enhanced user experience and deployed on Vercel.
- Integrated Firebase for real-time database management and user authentication, leveraging Firestore for data storage, Firebase Authentication for secure access, and implementing Admin Dashboard.
- Motion Amplification Video (MAV) | MERN, Tailwind, AWS | GitHub | Demo Video :
 - o Developed a pioneering cloud-based solution for Motion Amplification Video (MAV) (SIH'23 PS:1415), revolutionizing vibration analysis by enabling accessibility from anywhere via processing video clips and extracting motion features frame by frame, it amplifies and replays these motions, unveiling micro-scale defects.
 - o Implemented a cloud-based dashboard using AWS S3 Bucket and AWS Cloudfront for users to upload video clips and view processed results, enhancing accessibility from any location.
 - o Contributed to the development of the user interface (UI) to provide essential data outputs such as time waveforms and FFT spectra for in-depth vibration analysis.
- ClassSnap | Selenium Web Driver, MERN, Python | GitHub | Demo Video :
 - o Developed an innovative web application, ClassSnap, that automates note generation for online classes thus enhancing learning and improving student retention and attentiveness.
 - o Automates note-taking using automated text extraction via OCR Engine from lectures' video and audio content and then summarizing and preparing PDF Notes via Google's Pegasus Model.
 - Lead a team of 4 people, organizing regular team meetings and collaborating on Github while contributing on the Selenium Web Driver and the User Dashboard for easy access of generated notes.
- SleepSense | Python, Flask, Tensorflow | GitHub :
 - o Created SleepSense, a vigilant guardian against driver fatigue leveraging machine learning combined with image processing techniques to detect driver drowsiness and provide real-time alerts.
 - o Build a User Interface using Flask for users to access our ML model from anywhere and provide real time protection and monitoring.
 - Lead a team of 4 people and prepared prototype of project during **Hackman V.4** and placed **Top 10** collaborating on Github and improvising upon feedback received from mentors.
- Gen-Z Diaries | Python, Flask, SQLite, BootStrap | GitHub :
 - o Crafted a fully responsive **Blog Website** catering to Generation Z, enabling users to compose, comment on, and delete blog posts via **REST API**.
 - Enhances digital self-expression and engagement among Gen-Z users, facilitated by seamless frontend-backend interactivity.

ACHIEVEMENTS

- Placed Top 10 Among 48 other teams in Hackmanv6 -July 2023
- First Place in Web Wizards Web Development Contest February, 2023
- First Place in Extempore Competition in InBlooms organized by Christ University April, 2023

Volunteer Experience

Point Blank Bengaluru, India Member of an elite multidisciplinary team of programmers from DSCE. Jan 2023-Present

LITSOC, DSCE Bengaluru, India Member of the Literary Society of Dayananda Sagar College Of Engineering. Jan 2023-Present