Akash Singh

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Education

- **Dayananda Sagar College Of Engineering** — Bengaluru, India
  Bachelor of Engineering-Computer Science And Engineering; — *2022 - 2026*
- **Delhi Public School** — Siliguri, India
  12th Standard; CGPA: 9.6 — *2020-2022*

Skills Summary

- **Languages**: Python,JavaScript,TypeScript,C
- **Libraries and Frameworks**: Flask,NodeJS,ExpressJS,React,NextJs
- **Web Development**: HTML5,CSS3,BootStrap5,TailWind
- **Database And Tools**: MongoDb,Mongoose,SQLITE,GIT,GITHUB

Projects

- **Motion Amplification Video (MAV) (Cloud-Based Vibration Analysis For SIH'23 PS:1415)**:
  - Developed a pioneering **cloud-based solution** for Motion Amplification Video (MAV), revolutionizing vibration analysis by enabling accessibility from anywhere and significantly reduced costs compared to traditional methods.
  - Implemented a cloud-based **dashboard** for users to upload video clips and view processed results, enhancing accessibility from any location.
  - 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. GitHub
- **ClassSnap - Enhancing Learning with Automated Notes Generation (Web Driver, Web Development)**:
  - Developed an innovative web application, **ClassSnap**, that automates note generation for online classes.
  - **Improves** note-taking efficiency using automated text extraction from recorded lectures' video and audio content.
  - Enhanced user productivity, measured by a **40% reduction** in time spent on manual note-taking. GitHub
- **SleepSense - Vigilant Guardian against Driver Fatigue (Machine Learning, Image Processing, Web Development)**:
  - Created **SleepSense**, a machine learning model combined with image processing techniques to detect driver drowsiness and provide real-time alerts.
  - **Improves** road safety by proactively preventing accidents caused by drowsy driving, utilizing ML-based facial recognition.
  - Effectiveness demonstrated by a **55% reduction** in potential collision events during drowsy periods. GitHub
- **AI Image Generator - DALL-E API (Full Stack Web Development)**:
  - Designed and developed a responsive **AI Image Generator** website, leveraging the **DALL-E API**, to generate images based on user prompts.
  - **Empowers** users to creatively express themselves through AI-generated images, utilizing cutting-edge **DALL-E API** technology.
  - Utilizes MongoDB and cloudinary along with Node.js in the backend and React in the frontend. GitHub
- **Gen-Z Diaries - Blog Website (Full Stack Web Development)**:
  - Crafted a fully responsive **Blog Website** catering to Generation Z, enabling users to compose, comment on, and delete blog posts.
  - Enhances digital self-expression and engagement among Gen-Z users, facilitated by seamless frontend-backend interactivity. GitHub

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*