AAKASH SAINI

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EDUCATION

Guru Gobind Singh Indraprastha University Delhi, India
B.Tech in Computer Science and Engineering Sep 2021- July 2024
Indira Gandhi National Open University Delhi, India
Bachelor of Commerce June 2020 - Dec 2023
Board of Technical Education Delhi, India
Diploma in Mechanical Engineering Sep 2018 – July 2021

SKILLS SUMMARY

- Programming Languages: JavaScript, Python, Java, SQL
- Web Technologies: HTML, CSS, Bootstrap, React.js, WordPress, PHP, Tailwind CSS
- Frameworks & Libraries: Node.js, Express.js, NumPy, OpenCV, Flask, MediaPipe
- Databases: MySQL, Firebase, MongoDB
- Development Platforms: Visual Studio Code, IntelliJ IDEA, Sublime Text

WORK EXPERIENCE

INMAS, Defence Research and Development Organization (DRDO) **Delhi, India**

- **Software Developer** **July 2023 – August 2023**
  - Developed a web-based EEG signal analysis tool using HTML, CSS, and Python, integrating the MNE library for signal processing and visualization of raw EEG data.
  - Implemented data upload and real-time plotting features, allowing users to interact with and analyze EEG signals through time-series visualizations and signal processing techniques.
  - Enhanced user experience by designing an intuitive front-end interface, facilitating seamless interaction with EEG data and ensuring accurate graphical representation of brain activity patterns.
- **Mechanical Engineer** **July 2020 – October 2020**
  - Studied engineering drafting methods, focusing on technical drawing standards and CAD applications to improve design accuracy and efficiency.
  - Analyzed machining process quality control, evaluating precision, tolerances, and defect reduction strategies to enhance manufacturing quality and consistency.

PROJECTS

- **NeuroScope | Python, MNE, Flask, HTML, CSS, Bootstrap**
  - Developed a Web-Based EEG Analysis Tool – Integrated MNE for signal processing and visualization.
  - Implemented Data Upload & Real-Time Plotting – Enabled users to interact with EEG signals dynamically.
- **AI GYM TRAINER | Python, OpenCV, MediaPipe, NumPy**
  - Developed an AI Gym Trainer – Used computer vision to analyze body posture during exercises.
  - Pose Estimation with MediaPipe – Tracked key body joints for accurate exercise analysis.
- **License Plate Detection System | Python, OpenCV**
  - Developed a Real-Time Detection System – Utilized Haar Cascade classifiers for license plate recognition.
  - Video Capture & Processing – Continuously detects and highlights license plates in live video.

CERTIFICATES

- **Java:** online training from Internshala, **Aug 2022 – Sep 2022**
- **Software Developer:** Internship at INMAS DRDO **July 2023 – Aug 2023**
- **Quality Control:** Intern at INMAS DRDO **July 2020 – Oct 2020**