ASHUTOSH SINGH RAWAT

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EDUCATION

VIT Bhopal University (August, 2022 – Present)
B. Tech CSE(Core) | CGPA: 8.76

Rainbow Public School (May, 2020 – June 2021)
Higher Secondary | Percentage: 96.6%

SKILLS

- HTML, CSS, Basic MERN Stack (MongoDB, Express.js, React.js, Node.js).
- Java, Python, Basic knowledge of AWS (EC2, S3, Lambda, DynamoDB).

PROJECTS

HEALTH++ - SMART MEDICAL WEBSITE (Oct, 2024 – April 2025)

- **Engineered a prescription-sharing feature,** allowing doctors to access patients' treatment history, improving diagnosis accuracy by 20% and care continuity for patients with chronic conditions within the first quarter.
- **Integrated Google Drive API with a Node.js backend** for secure, real-time document storage and retrieval**.**
- **Implemented a prescription-sharing feature** for doctors to access patients' treatment history, improving diagnosis and care continuity.
- **Designed a secure login** and document encryption flow, increasing user data protection and supporting compliance with healthcare data standards.
- **Improved user experience and data accessibility** by streamlining medical record handling workflows.

GESTURE ALCHEMY (Feb, 2024 – May 2024)

- Built a machine learning model to **convert speech into sign language**, enhancing accessibility for the hearing-impaired community.
- **Developed a deep learning pipeline for speech-to-sign language translation** utilizing NLP techniques, achieving 95% accuracy in mapping spoken words to sign language gestures.
- **Developed a validation framework using diverse datasets** to evaluate and improve gesture recognition accuracy across varied contexts.
- **Optimized gesture mapping** by training on a comprehensive dataset, boosting model precision and user experience.
- **Enhanced model reliability by fine-tuning recognition** accuracy using contextual audio-sign language pairings.

EXTRA-CURRICULARS AND ACHIEVEMENTS

ACHIEVEMENTS

- Engaged with community discussions during the **100 Days of Code** project, sharing insights after completing each milestone; cultivated collaborative learning habits that enhanced overall understanding among peers involved in similar initiatives.
- **Achieved a top 5% rank** in the **NPTEL** Cloud Computing exam, demonstrating expertise in technologies and academic excellence.
- Attended the **INSPIRE camp** in class 10, selected as a **top 1% of students in the board**.

EXTRACURRICULAR

- **Co-founder, Pahadi Club – VIT Bhopal** Led initiatives to promote Pahadi culture through various events, increasing student participation and cultural awareness.
- **National Service Scheme - VIT Bhopal University –** Participated in the plantation camp where the team successfully planted 10,000 trees, contributing to environmental sustainability and community awareness.

ADDITIONAL INFORMATION

- **Hobbies:** Reading Novels, Gaming, Listening Music.
- **Languages:** English (Professional working proficiency), Hindi.

CODING PROFILE

GFG