

Komal Saraf

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SKILLS:

- Python, Java, C++, HTML, CSS, JavaScript, PHP, MySQL, Git.
 - Problem-solving , Data Structure and Algorithms , Object-oriented Programming , Statistics , Probability, Operating System , Computer Networking , Database Management System , Machine learning algorithms (TensorFlow, PyTorch, NumPy, Pandas) , Natural Language Programming (NLP) , Prompt Engineering , Web Development , App development , Generative AI.
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EDUCATION:

Bachelor of Technology (B.Tech.) - Computer Science

Sep 2022 - May 2026

VIT Bhopal University (B.TECH CSE Core)

Cumulative GPA - 7.53

PROJECTS:

- **iMovies (Fullstack)** Jan 2025- April 2025
 - Developed and engineered a full-stack movie ticket booking system, featuring secure user login, movie Browse, showtime selection, interactive seat mapping, and secure booking completion with a dynamic React.js frontend supporting over five distinct page views and a seamless user experience.
 - Tech stack used- MongoDB , Express.js ,React.js, Node.js
 - **Sign language Detection (App development)** July 2024- Dec 2024
 - Engineered an Android Sign Language Detection application in Java using Android Studio to bridge communication gaps for the hearing-impaired, achieving over 90% accuracy in real-time sign-to-text conversion leveraging Machine Learning algorithms (CNNs, YOLO) and libraries (TensorFlow Lite, OpenCV) for on-device pose estimation and inference, and dynamic display of converted text within the Android framework hence enhancing accessibility.
 - **Heart disease Detection (Machine Learning)** Feb 2024 – May 2024
 - Developed a healthcare website designed for early heart disease detection, providing predictions based on a patient's physical and medical characteristics.
 - Integrated and optimized various machine learning algorithms (e.g., Logistic Regression, Support Vector Machines, Random Forest) to enhance prediction accuracy and efficiency.
 - Achieved a prediction accuracy of more than 85%, demonstrating robust performance in identifying potential heart disease cases from input data.
 - **Desktop Assistant** Oct 2023-Dec 2023
 - Created a highly responsive, voice-enabled Desktop Assistant automating over 15 daily tasks, leading to an estimated 20% increase in user productivity achieved by seamlessly integrating Python libraries (SpeechRecognition, pyttsx3) for sub-second voice-to-text conversion and developing a GUI (Tkinter) with interactive modules for streamlined control over assistant functionalities.
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CO-CURRICULARS:

- Fullstack with MongoDB ,Smartbridge
- Generative AI, IBM
- C++ gold badge , Hackerrank
- Python gold badge , Hackerrank
- Member of Google Cloud Career Launchpad Program-APAC 2024.
- Cloud Computing, NPTEL IIT Kharagpur