

Komal Saraf

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EDUCATION:

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

Sep 2022 - June 2026

VIT Bhopal University (B.TECH CSE Core)

Cumulative GPA - 7.47

High School Diploma

Apr 2019 - Jun 2022

Mahadevi Birla Shishu Vihar

ISC – 74%

Welland Goulsmith School

ICSC – 86%

SKILLS:

- **Languages:** Python, Java, C++, MySQL.
 - **Core Competencies:** Problem-solving, Data Structures and Algorithms, Object-oriented Programming, Django, Machine learning (TensorFlow, PyTorch, Scikit- Learn, Matplotlib, NumPy, Pandas), Computer Vision (OpenCV, Pytorch), Data Analytics ,Data visualization, Prompt Engineering,
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PROJECTS:

- **Sign language Detection** (Machine Learning) July 2024- Dec 2024
 - Developed a system for real-time sign-to-text conversion, enhancing communication accessibility for the hearing-impaired.
 - Achieved 90%+ accuracy in gesture recognition using CNN-based models, YOLO for object detection, and OpenCV for pose estimation.
 - Deployed optimized ML models with TensorFlow Lite for on-device inference, enabling low-latency with integrated live camera feed processing and dynamic UI rendering within the Android framework.
 - Skills Used: TensorFlow Lite, YOLO, OpenCV, CNN, Android Studio, Java, ML Model Optimization
 - **Heart disease Detection** (Machine Learning) Feb 2024 – May 2024
 - Developed a healthcare system 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% by analyzing 1000+ dataset entries, demonstrating robust performance in identifying potential heart disease cases from input data.
 - Skills Used: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook, ML Model Evaluation.
 - **Desktop Assistant** Oct 2023-Dec 2023
 - Created a highly responsive, voice-enabled Desktop Assistant automating daily tasks, leading to an estimated 20% increase in user productivity achieved by seamlessly integrating Python libraries (SpeechRecognition, pyttsx3) for voice-to-text conversion and developing a GUI (Tkinter) with interactive modules for streamlined control over assistant functionalities.
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CO-CURRICULARS:

- C++ gold badge , Hackerrank
- Python gold badge , Hackerrank
- A certified course on Generative AI by IBM
- Supervised Machine Learning, Stanford University, Coursera
- Completed 15 Skill badges in Google Cloud Skill Boost.
- Member, AI Club, VIT Bhopal 2022 – Coordinated and organized multiple events, workshops, and functions within the AI Club, contributing to community building, knowledge sharing, and enhancing student participation in Artificial Intelligence initiatives.