

# Sahil Singh

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## EDUCATION

B.Tech in Computer Science and Engineering (Health Informatics) 2022–2026  
**Vellore Institute of Technology**, Bhopal, Madhya Pradesh CGPA: 9.13/10.0

## SKILLS

Programming Languages: C++, Python  
Frameworks and Libraries: TensorFlow, Pandas, Keras, OpenCV, NumPy, Tkinter, Matplotlib, Scikit-Learn  
Databases and Tools: SQL, Git, MS Excel, Power BI  
Concepts: OOP, Data Structures and Algorithm, Machine Learning, Computer Networks, Deep Learning

## PROJECTS

**NeuroDetect: Parkinson’s Disease Detection System** May 2023

- Built a CNN-based model with TensorFlow, processing 3,000+ medical samples.
- Achieved 87% accuracy in early Parkinson’s detection via deep learning.
- Contributed 60% Python modules and 40% CNN pipelines in a 5-member team.
- Optimized training workflow, cutting runtime by 20% without accuracy loss.
- **Tech Stack:** Python, TensorFlow, Keras, OpenCV, NumPy, Pandas

**FilmSage: ML-Powered Genre Classification** Dec 2024

- Built a KNN model to classify movie genres with 88% accuracy.
- Preprocessed 300+ samples using normalization and feature scaling.
- Tuned K (3–15) and distance metrics for best model performance.
- **Tech Stack:** Python, Scikit-Learn, NumPy, Pandas, Matplotlib

**FaceTRACK: Automated Attendance System** June 2025

- Developed LBPH-based face recognition (OpenCV) with 93% accuracy under 100ms.
- Designed Tkinter GUI with admin login and real-time attendance tracking.
- Automated logging with Pandas/CSV, ensuring 80%+ data integrity.
- Reduced training duration by 30% with optimized preprocessing and pipelines.
- **Tech Stack:** Python, OpenCV, Pandas, Tkinter

## ACHIEVEMENTS

- Solved 200+ complex Data Structures and Algorithms problems across various coding platforms
- Attained 3-star rating in C++ and SQL on HackerRank

## CERTIFICATIONS

- OCI Data Science Professional
- OCI Generative AI Professional



## EXTRACURRICULAR ACTIVITIES

- Created 100+ detailed sketches, mastering shading, perspective, and anatomical precision
- Led a 15-member cricket team to a 75% win rate through strategic planning
- Read 50+ books across diverse genres, expanding literary knowledge