

Shishir Somir Mukherjee

+91 9558-358-677 / shishirmukherjee1709@gmail.com / [linkedin.com/in/shishir-mukherjee](https://www.linkedin.com/in/shishir-mukherjee) / github.com/Shi1709

PROFESSIONAL SUMMARY

Computer Science Engineering undergraduate skilled in **C/C++, Python, Java, SQL**. Strong problem-solver with experience in **machine learning, data analysis**, and building **scalable systems**. Combines **low-level programming** with **data-driven** solutions for optimal performance.

EDUCATION

VIT Bhopal University <i>Bachelor of Technology in Computer Science (AI ML)</i>	Bhopal, Madhya Pradesh Sep 2022 –
Kendriya Vidyalaya No.1 Shahibaug <i>XII (Senior Secondary)</i>	Ahmedabad, Gujarat June 2021 – July 2022
Kendriya Vidyalaya No.1 Shahibaug <i>X (Secondary)</i>	Ahmedabad, Gujarat June 2019 – May 2020

PROJECTS

Facial Detection (Med Vault) Python, HTML/CSS, ML <ul style="list-style-type: none">Developed a facial recognition model using OpenCV and ML techniques, achieving 91.4% detection accuracy on a dataset of 1,500+ facial images.Built a user-friendly web interface to automate doctor access, reducing manual intervention by 40%.Preprocessed over 3,000 images with grayscale conversion, histogram equalization, and noise filtering to enhance input quality.	Aug 2023 – Oct 2023
Diabetes Prediction Model Python, KNN, XGBoost, SVM <ul style="list-style-type: none">Trained and evaluated KNN, XGBoost, and SVM models on a dataset of 7,600 patient records, achieving highest accuracy of 92.3% using XGBoost.Cleaned and preprocessed dataset by imputing 9.4% missing values and normalizing 16 numerical features to improve consistency and model performance.Conducted performance benchmarking across three ML models, reducing false positives by 12% in the final deployed pipeline.	April 2024 – June 2024
Skin Cancer Detection Model TensorFlow, CNN, Python <ul style="list-style-type: none">Engineered a convolutional neural network (CNN) using TensorFlow, achieving 95% accuracy in classifying 10,000+ dermoscopic images into 7 skin cancer categories.Applied advanced pre-processing techniques (resizing, normalization, and augmentation), increasing model generalization by 18%.Validated model performance using detailed confusion matrices and classification reports across 5 cross-validation folds.	Nov 2024 – April 2025

TECHNICAL SKILLS

Languages: Python, C/C++, Java, OOP, SQL
Developer Tools: Github, Jupyter Notebook, VS Code, Visual Studio, PyCharm
Libraries: pandas, NumPy, Matplotlib, Sci-kit Learn, Tensorflow, STL

ACHIEVEMENTS

- Bug Bonanza Winner** (VIT Bhopal University, Geeks For Geeks Club, VIT)