

Vivek Sharma

8828482583 | vivektusharma@gmail.com | linkedin.com/in/vivek-sharma-64951b24b | github.com/Vivek02Sharma

EDUCATION

MCC, University of Mumbai

BSc in Information Technology:- CGPA - 7.37

Mumbai, India

2022 – 2025

GVM College

High School (HSC Science):- 65%

Mumbai, India

2020 – 2022

PROJECTS

ArtCycle | Python, Tensorflow, Numpy, Matplotlib, Shell

[[Project Link](#)]

- Developed a CycleGAN-based unsupervised deep learning model to perform artistic style transfer between photos and paintings.
- Created an interactive web application using Streamlit for real-time image conversion, integrating pretrained TensorFlow models.
- Deployed the app on Streamlit Cloud for public access and testing.
- Implemented efficient training pipelines in TensorFlow with optimized loss functions (cycle loss, identity loss) and automated dataset handling using the Kaggle API.

Student Performance Analysis and Prediction | Python, Scikit-learn, XGBoost, Streamlit

[[Project Link](#)]

- Built a Streamlit web app to analyze and predict student academic performance using ML models.
- Implemented role-based access for professors and students with interactive performance dashboards.
- Used pre-trained models to predict SGPA, percentage, and marks; stored data securely with MongoDB.
- Enabled automated report generation and semester-wise performance trend analysis.

Brain Tumor Classification App | Python, TensorFlow, Streamlit, CNN, PIL

[[Project Link](#)]

- Developed a Streamlit web app to classify brain tumors from MRI images using a pre-trained CNN model.
- Implemented grayscale image preprocessing, prediction probability display, and support for four tumor classes.
- Built and trained a CNN with TensorFlow using data augmentation and validation pipelines.
- Enabled real-time predictions and deployed the model on Hugging Face Spaces for public access.

EXPERIENCE

Techathon

February 2025

Mulund College of Commerce

Mumbai, India

- Built and trained machine learning models to predict equipment failures using sensor data and historical maintenance records.
- Performed data preprocessing and feature engineering to improve prediction accuracy.
- Optimized model performance through hyperparameter tuning and evaluation metrics like precision and recall.
- Integrated machine learning models into backend (Flask/FastAPI) for real-time predictive maintenance.

OPEN SOURCE CONTRIBUTION

Universal-Box

2024

Contributor (Data Science Template)

- Developed and added a Data Science template to Universal-Box to streamline data science project setup.
- Created an easy-to-use starter template including configurations for common data science tools (e.g., Jupyter, pandas, scikit-learn).
- Integrated sample workflows and notebook structures into the template for quick project initialization.
- Collaborated with other developers to ensure the template aligns with best practices for data science projects.

TECHNICAL SKILLS

Languages: Python, SQL

Frameworks: TensorFlow, Flask, FastAPI

Developer Tools: Linux, Git, Github, VS Code, Jupyter lab, PyCharm

Libraries: Scikit-learn, pandas, NumPy, Matplotlib, Seaborn, Plotly