Munish Upadhyay

Software Developer
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HackerRank | GitHub | LeetCode | Linkedin

EDUCATION

VIT BHOPAL UNIVERSITY (VIT), BHOPAL — July 2023 - May 2027
Computer Science Bachelors — Bhopal
CGPA: 8.90

SKILLS

Programming Languages	C++, Python, Java
Libraries/Frameworks	NumPy, Pandas, Scikit-Learn, Tensorflow, Seaborn
Tools / Platforms	VS Code, Google Colab, Git, GitHub
Databases	SQL

PROJECTS / OPEN-SOURCE

SPLITWISE | Link — Java

Tech Stack : Java | Swing UI | Java JDBC | MySQL

- Idea: Split bills among friends, track who owes whom.
- Built a desktop application to split expenses among friends and track individual balances.
- Implemented a Swing-based UI to add bills by trip and display expense details in a user-friendly popup window.
- Used JDBC to connect with a MySQL database for storing and updating user and transaction data in real-time.

MULTIPLE-DISEASE-PREDICTION | Link — Python + Streamlit

Tech Stack: Python | Scikit-learn | Streamlit | Pandas | NumPy

- Built a unified ML web app to predict Diabetes, Heart Disease, and Parkinsons Disease using Python, Scikit-learn, and Streamlit.
- Trained models (Logistic Regression, SVM) on Kaggle datasets, achieving high accuracy through preprocessing and tuning.
- Designed an interactive UI with Streamlit for user friendlyexperience

BRAIN-TUMOR-SEGMENTATION-BRATS-2020-DATASET | Link — Python + Jupyter Notebook

Tech Stack: Python, PyTorch (or TensorFlow), 3D U-Net, Nibabel, NumPy, Scikit-learn, Matplotlib, OpenCV, Google Colab

- Built a 3D U-Net model for brain tumor segmentation using BraTS 2020 multi-modal MRI data (T1, T1ce, T2, FLAIR).
- Preprocessed volumetric data with Nibabel, including normalization, resizing, and augmentation.
- Trained and evaluated the model using Dice Loss and IoU for accurate multi-class tumor region segmentation.
- Visualized 3D segmentations and MRI slices using Matplotlib and OpenCV; utilized Google Colab with GPU acceleration.

CERTIFICATIONS

- Introduction to Machine Learning - **NPTEL**