Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques

Tech Stack

To develop and deploy the predictive liver cirrhosis model efficiently, the following technology stack will be used:

Programming Languages

- Python (for machine learning, data preprocessing, and backend)

Data Handling & Storage

- **Data Processing Libraries:** Pandas, NumPy, SciPy

- **Data Visualization:** Matplotlib, Seaborn

Machine Learning & AI

- **ML Frameworks:** Scikit-learn, XGBoost, TensorFlow/PyTorch

- **Models Tested:** Logistic Regression, DecisionTree, RandomForest, XGBoost, Support Vector Classifier, KNeighboursClassifier, Gaussian Naïve Bayes

- **Model Deployment:** Flask (as API layer)

- **Saving Model:** Pickle