HEART STROKE PREDICTION

Rahul S

Modules Used

- Logistic Regression
- KNeighbours Classifier
- XGBoost Classifier
- CatBoost Classifier
- SVC
- AdaBoost Classifier
- RandomForest Classifier

DATABASES USED

MONGODB

Storage used

DEPLOYMENT

GitHub Actions

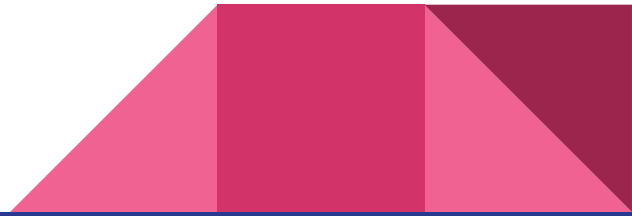
amazon EC2

WHAT WE LEARNED

- Good understanding of Python.
- Modular way of coding.
- Using Scikit-learn models.
- Using XGBoost and CatBoost.
- Efficient way for Training and hyperparameter tuning.

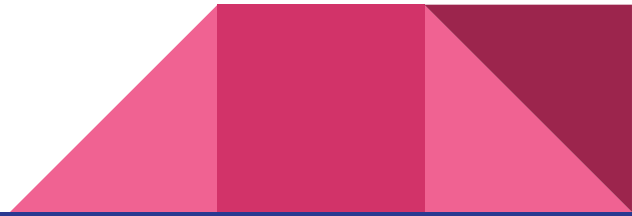
WHAT WE HAVE LEARNED IN MLOPS

- FastAPI framework for creating the application.
- Dockerizing the project.
- Use S3 Bucket for storage.
- Use ECR to store Docker image.
- To deploy the project in AWS.
- Use Github Actions for CICD.



PROBLEM STATEMENT

This project aims to solve a problem where we can predict if a patient is likely to get heart stroke based on diagnostic report.



SOLUTION PROPOSED

SOLVE THE PROBLEM

Using scikit-learn supervised machine learning techniques

Libraries used

Scikit Learn

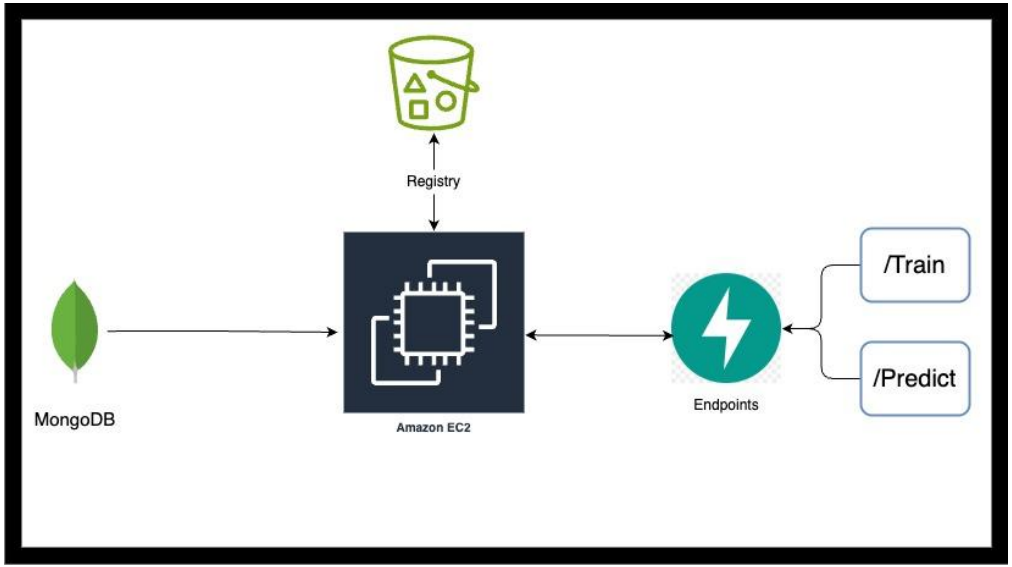
WEB Framework

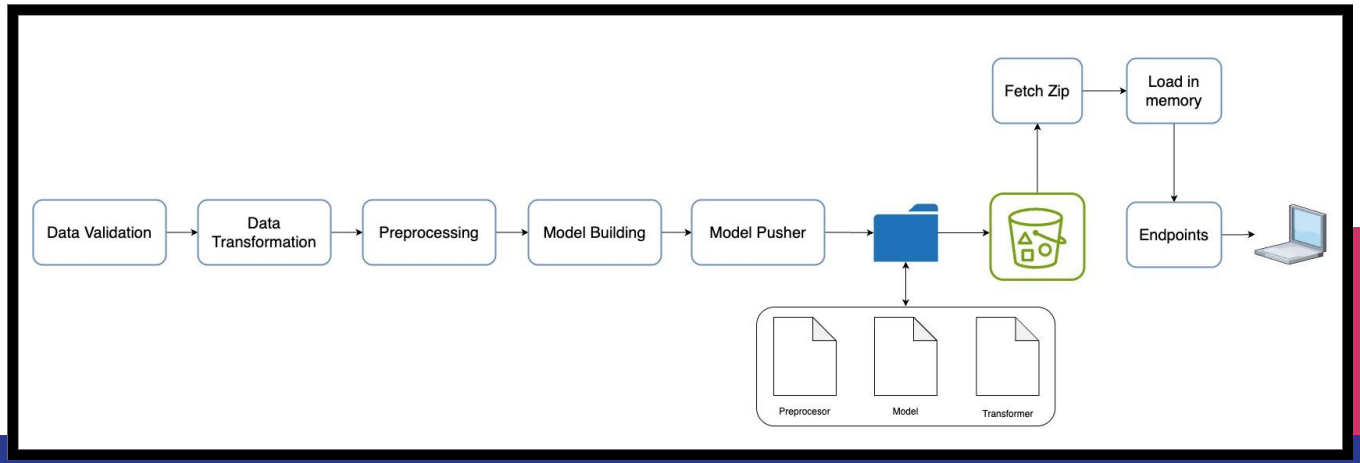
Fast API

CLOUD PLATFORM

Amazon Web Services

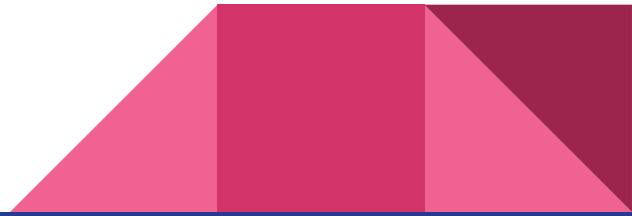
Data Collection





PREREQUISITES

- Basic Python (Class, object, modular coding)
- Basic Understanding of AWS. (AWS CLI installed)
- Basic Understanding of docker. (Docker Desktop installed)
- Basic Understanding of OOPS.



THANK YOU