Adult Census Income Prediction

PROJECT ARCHITECTURE

01.11.2021

Project By :

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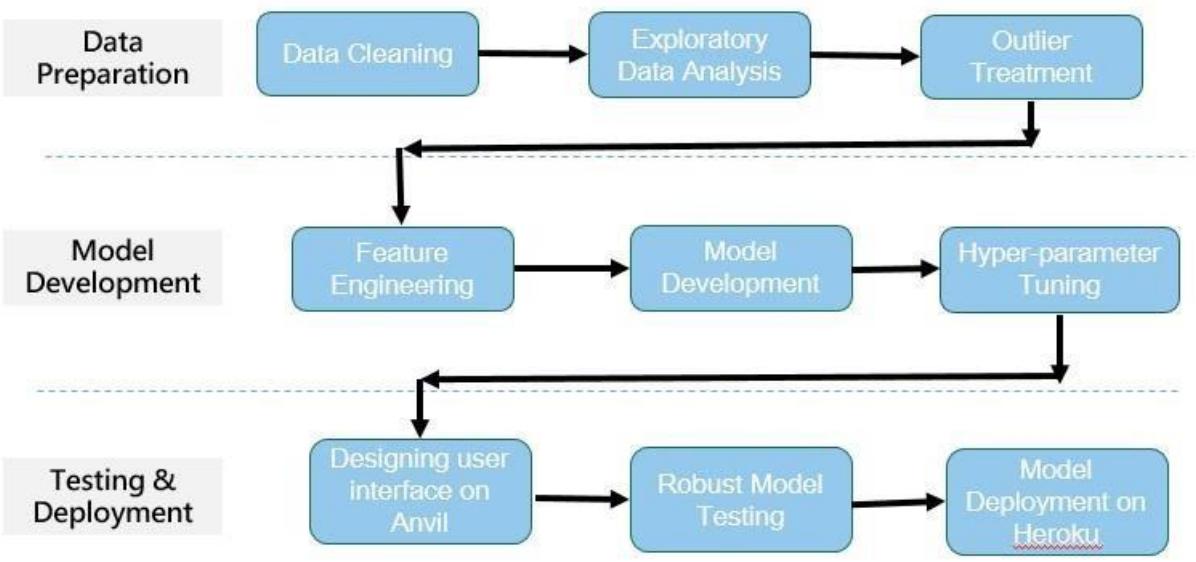
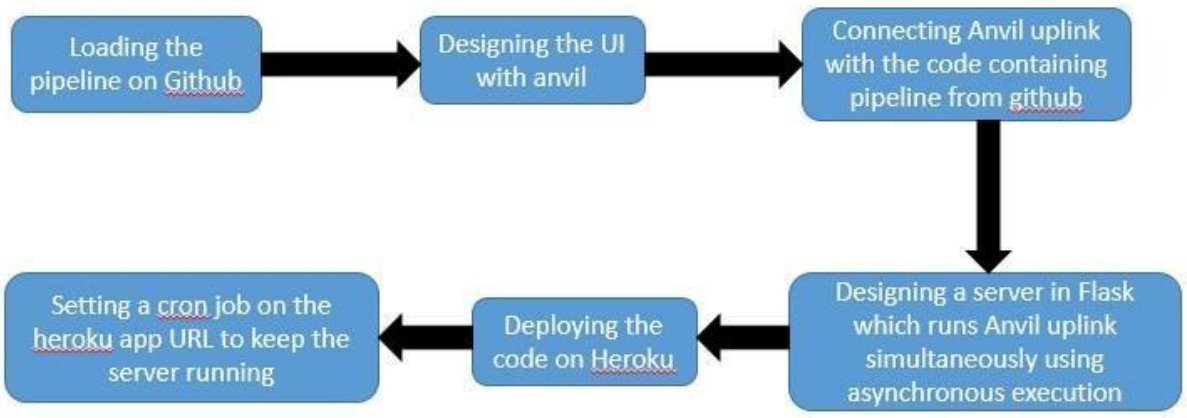
Architecture

Proposed Methodology



Deployment Process



Architecture Description

Data Description

The dataset named Adult Census Income is available in kaggle and UCI repository. This data was extracted from the 1994 census bureau dataset by Ronny Kohavi and Barry Becker (Data Mining and Visualization, Silicon Graphics). **The prediction task is to determine whether a person makes over $50K a year or not.**

Data Preparation

This step includes all the necessary steps that take place in the life cycle of a data science project namely, Data cleaning, Exploratory Data Analysis (EDA), and outlier treatment. In this step, our data gets prepared to be feeded to our ML model.

Model Development

This step contains all other necessary steps such as Feature Engineering, Feature Selection, Model Selection and Hyperparameter

tuning to make the best possible model that can be made for accurate and correct prediction.

Deployment Process

In this step, we first develop the UI using Anvil and connect with our code in which our model is running with the help of an uplink and create a server using Flask which runs the uplink code (server code) using parallel excecution or asynchronous execution and we will then upload the hole code in Heroku cloud using git and github. We will then set a cron job on that server to keep the server and server code running forever.