Overview

Friday, May 24, 2024 12:59 AM

1. **Journey so Far**
2. **Learning Curves**
3. **Project Details**
4. **Deployment**

Topics Covered

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1. **Basics of Flask**
2. **URL Building, Dynamic URLs**
3. **HTML Templates, *Jinja* Template Engine, Template Inheritance**
4. **Web Forms and Input Validation using *wtforms***
5. **Databases - *SQL Alchemy* and *SQLite* Database**
6. **Sessions**
7. **Cookies**
8. **Machine Learning Project - Training and Deployment**

Learning Curves

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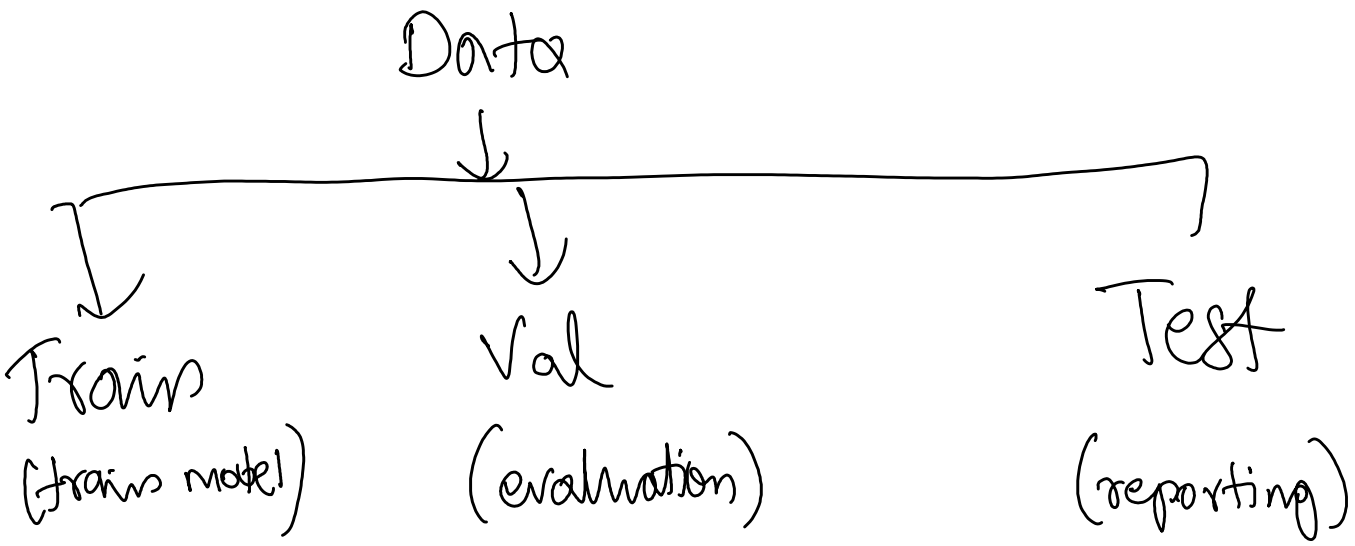
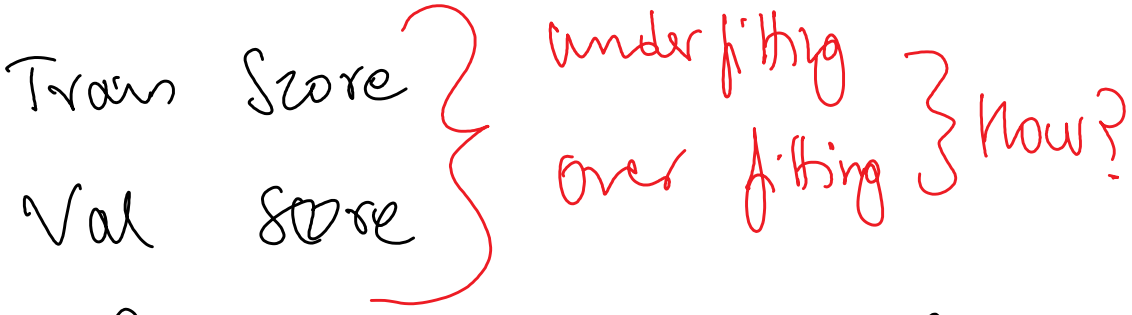
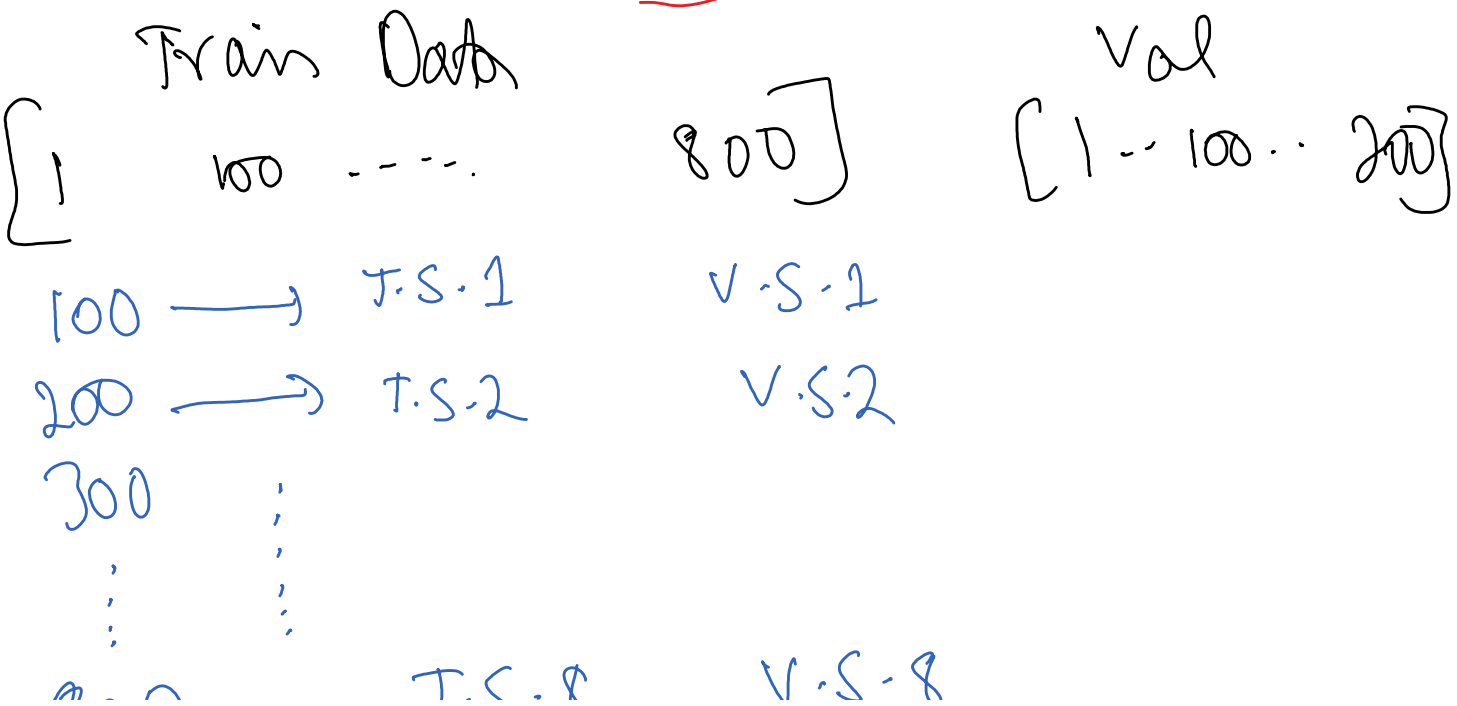
- A great tool for evaluating the performance of Machine Learning models
- Act as a diagnostic tool and helps to identify if the model is under-fitting or over-fitting







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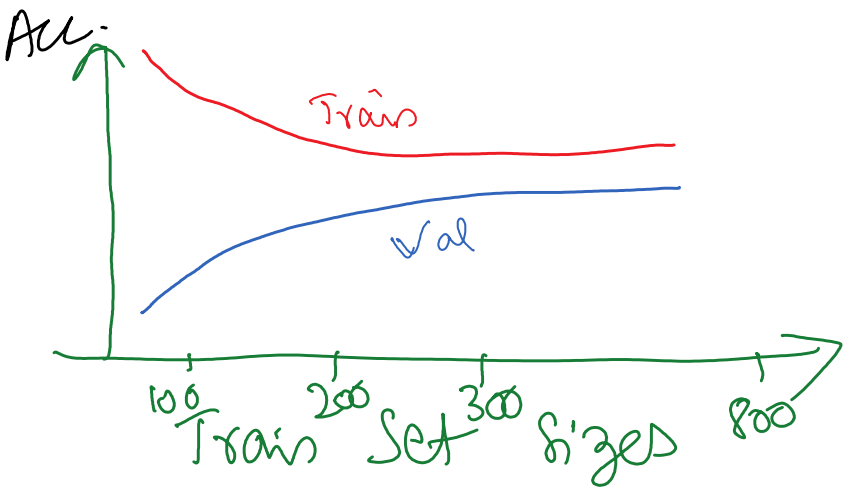
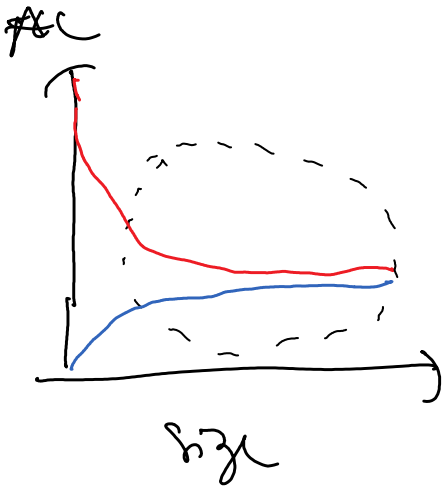
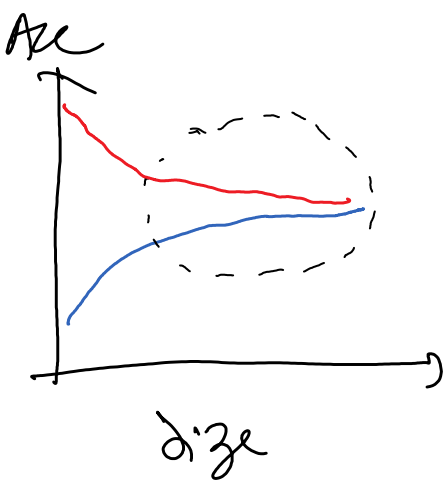
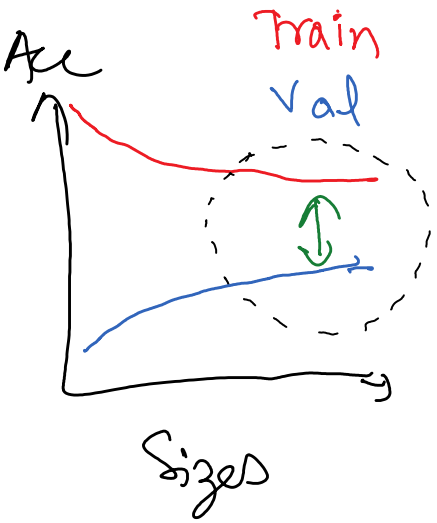




Under-fitting



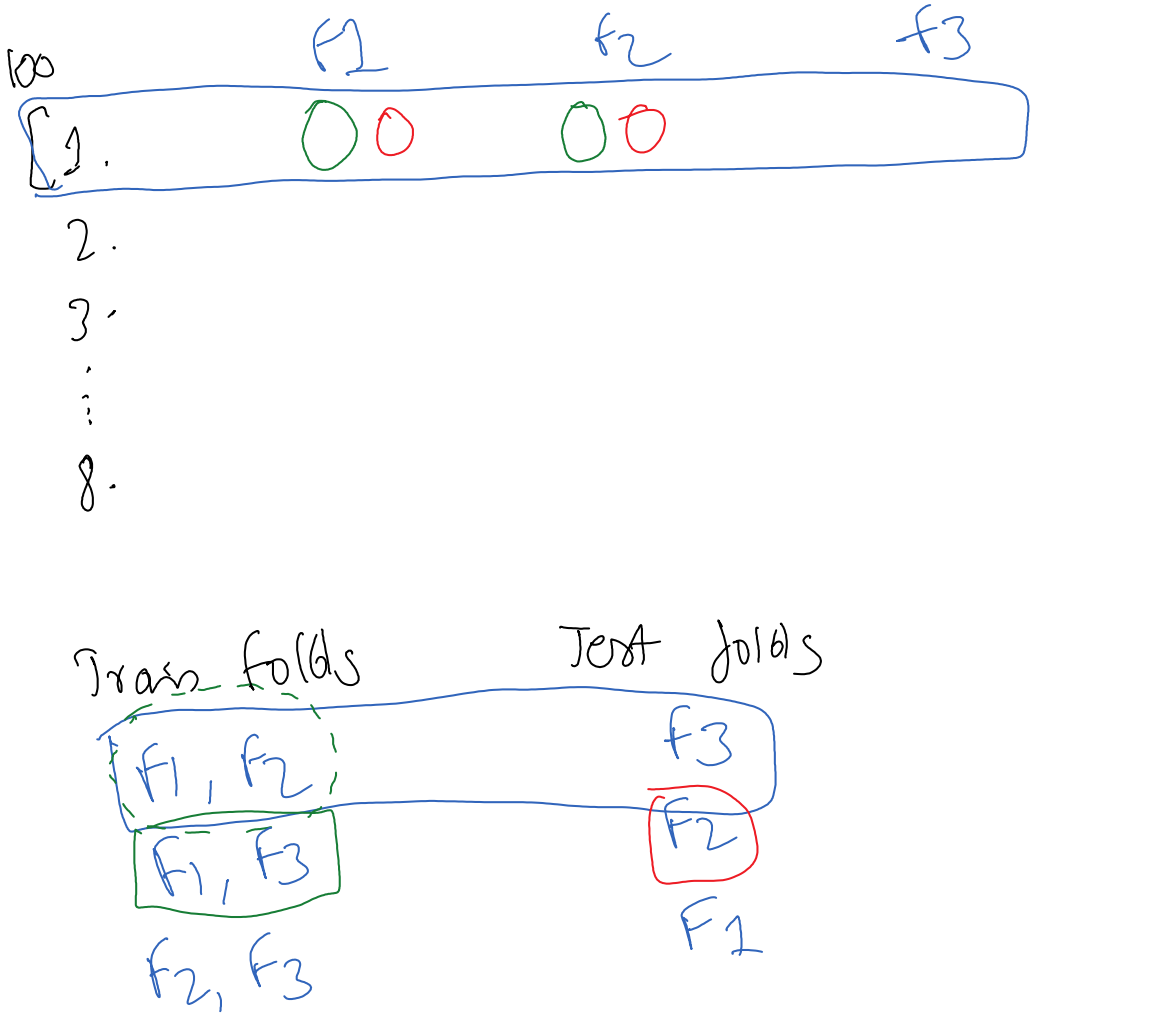
Good fit



Over-fitting

Sklearn [cv=3]

X_train


100
f1
f2
f3
1.
2.
3.
8.
Train folds
Test folds
f1, f2
f1, f3
f2, f3
f3
f2
f1

Project Flow and Description

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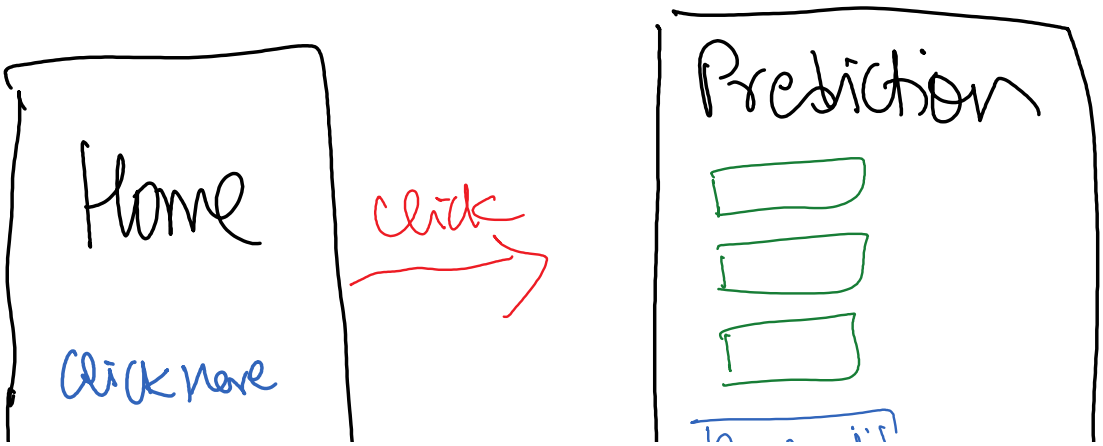
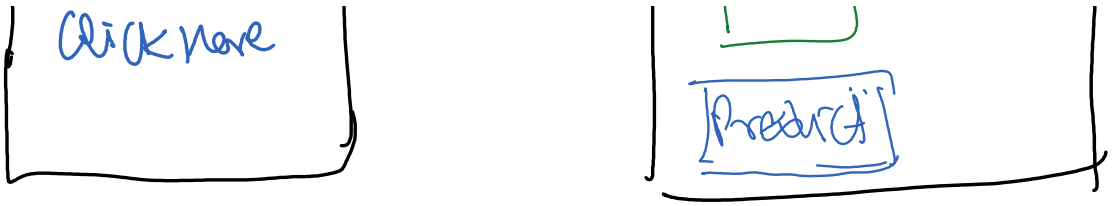
Flight Prices Prediction

Project Flow:

1. GitHub set-up
2. Model Training:
    - Gather and Split data
    - Data pre-processing
    - Model selection (Learning Curves)
    - Model training
    - Model persistence (saving)
3. Create Input form
4. Create the Application
5. Create HTML templates
6. Testing on Local Server
7. Push changes to Remote Repository (GitHub)
8. Deploy Application using Render

Project Description:





1. Test local
2. Push GitHub
3. Deploy → Render