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GithubCode: <https://github.com/architsharm/Streamlit-demo-2>

Streamlit deployed app :<https://architsharm-streamlit-demo-2-stock-3fzp2g.streamlit.app/>

## Streamlit

| Start at 9:05

- Agenda
- MLOPs
  - Streamlit

- ⇒ MLOPs →
- pipelines
  - Automation
  - Deployment

⇒ Machine Learning → we can create model.

e.g. RS for flipkart →

2018 → 2020 might not work

→ Retrain model in 2020

- retrain
- refine
- ↴
- deployment → almost everything in the process would have changed

⇒ MLOps Engineer → lucrative job

↳ slightly better than DS / ML Scientist.

⇒ Streamlit →

⇒ • Python / Jupyter → model →

App → UI which a normal person w/o any coding background can interact & use your model

⇒ Matplotlib / Seaborn / Tableau →

⇒ older generation

HTML/CSS → Create website → interact with a model  
using some backend

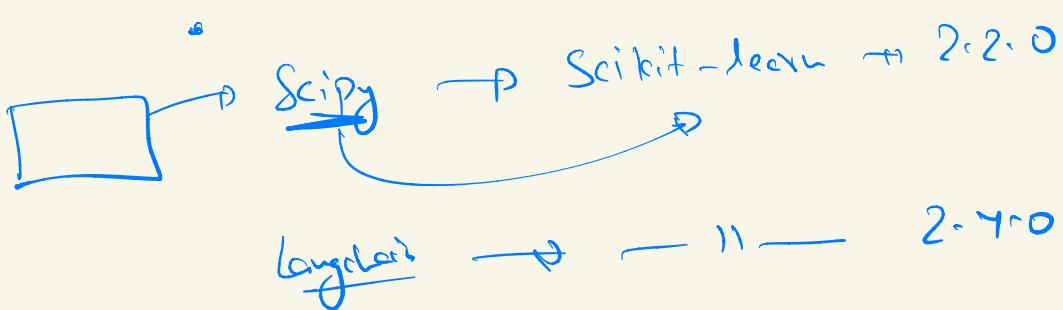
⇒ R → R Shiny → UI framework

↳ Stats language

⇒ Python →

- Django
- Plotly, Dash
- Streamlit →
  - very easy
  - extensive documentation
  - very beautiful UI
  - completely built using Python

⇒ Virtual env →



during process → where specific version of  
libraries can be installed



=D + UI framework →  
↳ defined set of rule

=D: Heading ← .chart  
· Title ← .  
· Input text ← .button  
· Dropdown ← .checkbox  
↳ line  
↳ Pie  
↳ Bar

- Search
- list

↳ Prescribed syntax →

qd.read - csv()

st.title

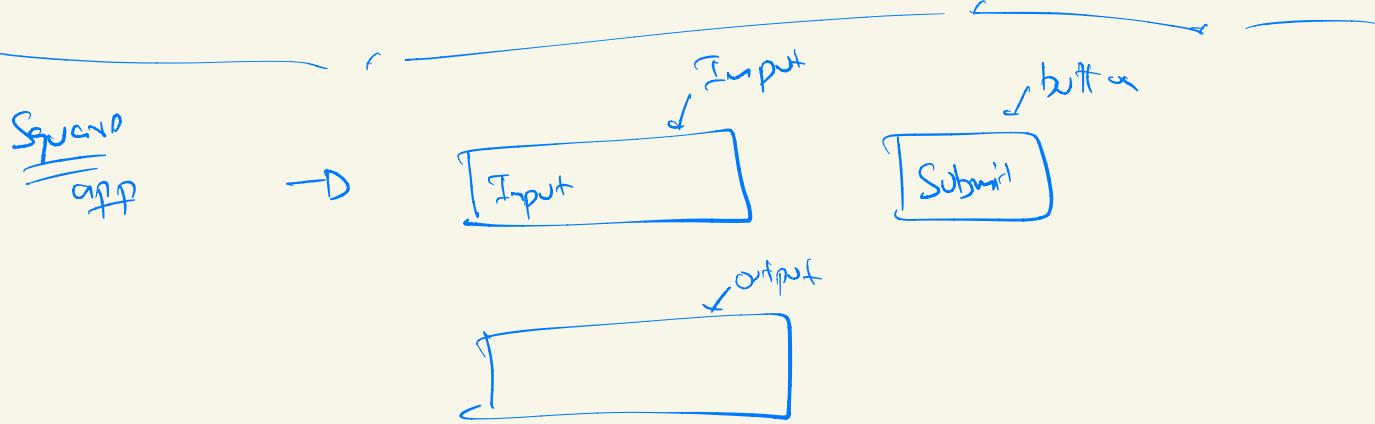
St. header

St. list

St. button

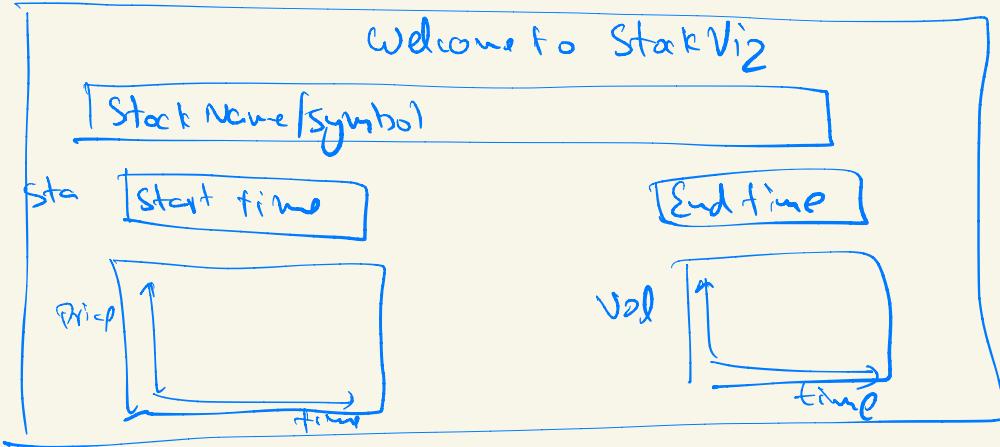
title →  
st.title ("This is great")

Dropdown →  
st.dropdown ({options, option1, ...})



# → Build a Stock Analyzer Platform →

Mindmap / Design



Data ↪ yahoo → yfinance →  
↳ python module  
↳ api  
↳ webscrapy

→ • Containers / Layout →

→ to ensure that the two chart are at same row.

→ How to deploy the model →

↳ Cars 24 price predictor model →

↳ Pickle → ??

## ↳ Create a model →

↳ Cleaning (outliers) missing value

- Standardization
- Encode Categorical
- Feature Selections
- (Splitting train data)
- Train your model

→ In which of these steps → you have modified data structure

→ Gender

M

F

Gender

M O

I

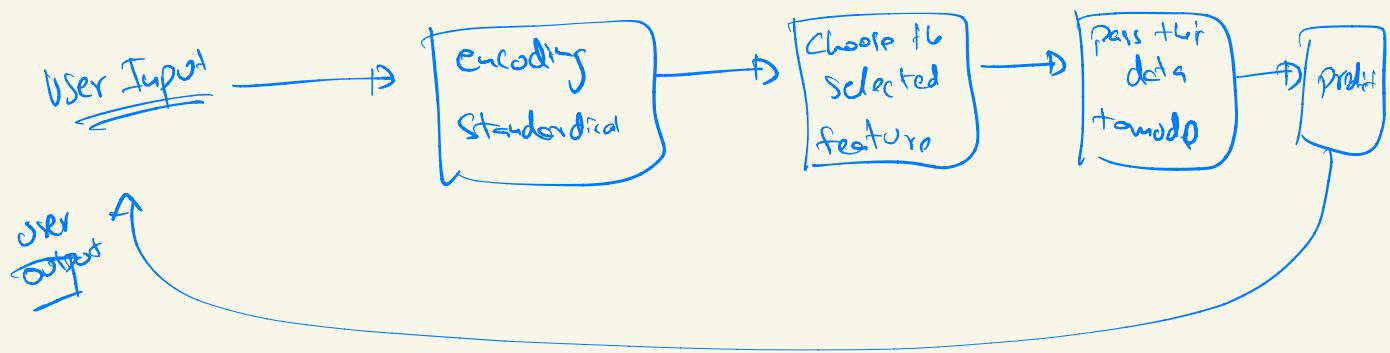
→ Standardization

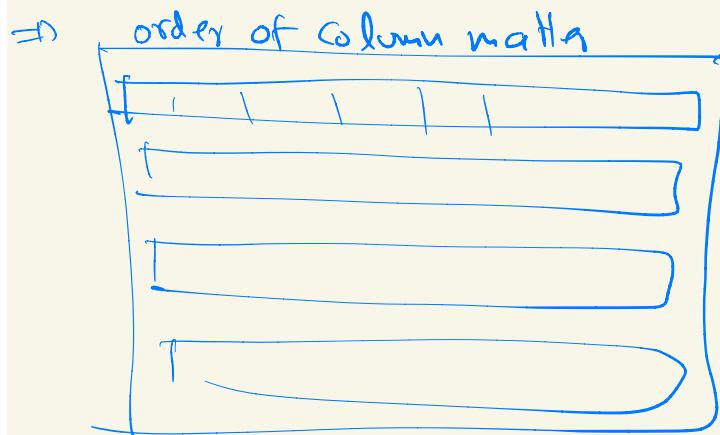
100000 ←

10 ←

→ Encoding

- Standardization





→ at the training time →  
at the prediction time

→ no. of columns, } should  
order of column } be  
same

