Hypothesis test, plothing

- Feature Building - New features FE / Feature transformation model (try all the models) School the Best model (reso val) Baysear search - Hyper Parameter Tuning - Unid Search Random Search Lest parans. Model (Best Parans)

ML Flow Page 2

Predictions - Serialize

Evaluate -> Streamlit s local deployment

Experimentation Tracking:

Simple Imputer (mean value,) Experiment

Constant value)

imputer = Simple Imputer (const)

acc = 0.80

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Experimentation tracking

Model Registry

Record -> Model -> location save (Backup)

Advantages:

1) Best models - Record

a) Best models -> Versioning

lol-lytree = 0.7

Xg boost 0.7 v-1

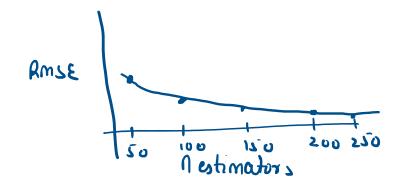
xgloost 0.8 v-2

3) MLFlow - Docker integrated

Docker image.

Repository - Deploy

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Duc — live Experimentation

Mr. Flow — Server sun. (URI)

Very light weight — Very less code = More functionality

Model Registry — Docker compatible

Deploy

Need to have

- 1) Machine learning flow notebook
- a) Tracking and Evaluation.
- 3) Myperparameter tuning Ophuna
 Chrid learch

Good to have

1) MLOP's

- 2) Version control
- 3) Experimentation tracking Ovc

Capabilities

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1)	Experimentation	tracking

- 2) Model Registry.
- 3) Model Evaluation > Simple code > Reg.,

 (onfusion, Roc, Metrics = model type

 matrix

 Precision, Recall, Accuracy.

 Classification Report.
- Model logging Model + metadata

 Requirements pip.

 Conda

 Model. get-parenns()

 Env -> virtualenv, conda

 Config ->

Prediction code -> data.

model predictions

5) Data validation - fast API (Pydontic)
log input data + Validation

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Du (-> Model versioning.

Deployment

Evaluation

Data Validation -> Pydantic

End point - Docken.

Containering - Push to registry

Deploy on sever