Machine Learnings

- Agenda: 1. Be on time
 - Machine Rearning Topics 2.
 - Common Questions asked from ML 3.
 - Inkruien Question from Componies. 40

Introduction to Machine Learning

- 1. Definition in ML
 - · Supervised
 - · unsupervised
 - · Semisoperised
 - · Reinforcement

Supervised Machine dearning

2. Regression

Linear Regression Logistic Regression

Rrdge & Lasso - 11 12

Evaluation Metrics in regression

3. Classifrotion

Decision Tree

Random Furest

SVM

K-nearest reighbour

Naive Bayes

Perfomence matrix, (Accuracy, Roc, Flower Brown Recall, Auc)

Unsupervised Machine Learning

K-means clustering.

Herroric hal

DBSCAN

Agglemo trive

Evalvation of clusting model [Silhoute score]

Dimensionality Reductions

PCA [Principle Compount Analysis]

t-SNE

LDA

Ensemble Methods

Bagging

RF

Boosting

Ada Boot

24 Boost

Gradient Bos Ting

Cathoost

Feature Engineering

1) Feature Selection

Filter

Noather

Embedded

Feature Scaling

Normalization

Slandordization

Hardling Caragentical Data

- 3 One hot encoding
- =) Lakel Enroling

Model Evalvotion & selection

Cross-validation

= K-fold Cross validation

Brow-voñance Troode off

Model Selection

- a) Crid dearch
- =) Random Seorch
- >> Bayesian optimization

Specialized Topics

Time Series Analysis

Recommend Byskm

Python dileravies

Numby Scilit Learn Mather Rib Pandas Tensor yeow Sing

Anomally Dekchou

Z-8000

One-Class SVM

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