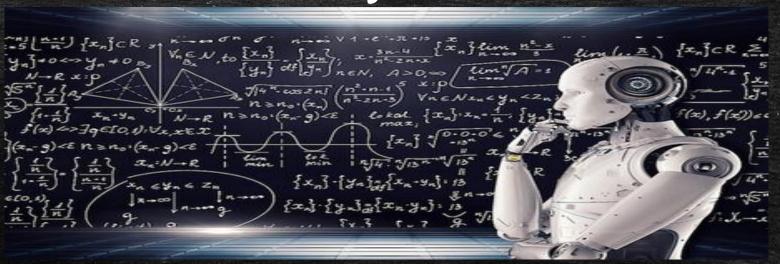
Machine Learning and Content Analytics



Professors: H. Papageorgiou, G. Perakis

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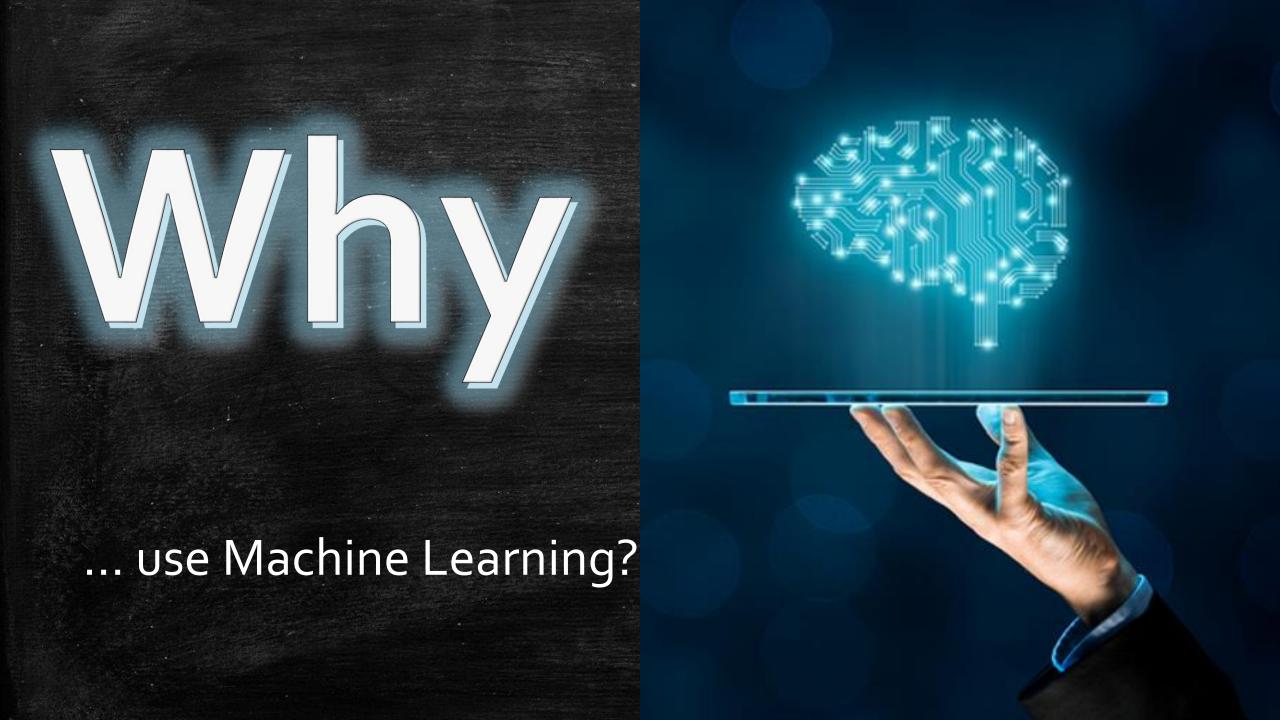
A.Ntetsika

p2822014

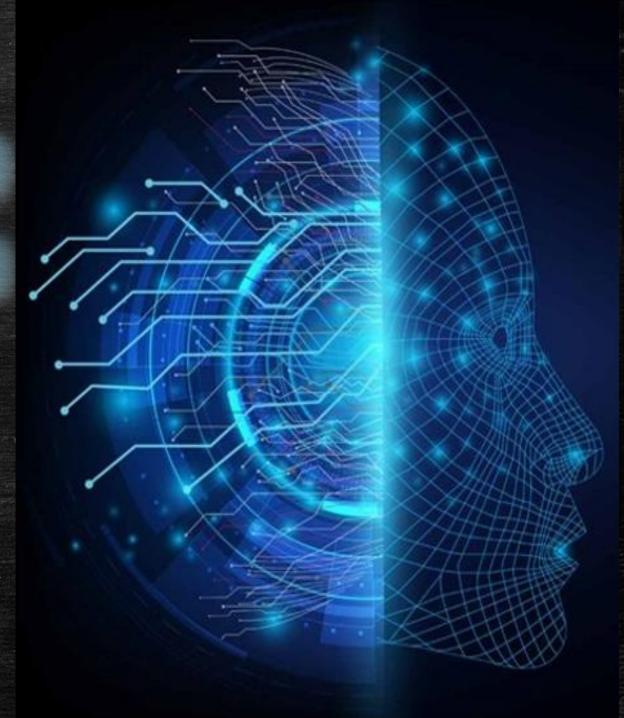
D.Mentakis

p2822024

Semester Project



... is Machine Learning?



Contents

Contents

- Scope
- Approach Overview
- Data Analysis
- Modeling
- Hyperameter Tuning
- Results
- Problems, Improvements and Future Use



Scope

How Greek pay television tries to harmonize by recommendation and prediction system according the Netflix platform









Approach Overview

MIA ΓΕΝΙΚΗ ΑΡΧΙΤΕΚΤΟΝΙΚΗ ΣΑΝ ΕΙΚΟΝΑ ΠΟΥ ΝΑ ΧΕΙ

ΈΝΑ ΕΙΚΟΝΙΔΙΟ ΑΝΑΖΗΤΗΣΗΣ ΔΕΔΟΜΕΝΩΝ

ΒΕΛΑΚΙ ΣΕ ΜΙΑ ΣΚΟΥΠΑ

ΒΕΛΑΚΙ ΣΕ ΚΑΘΑΡΙΣΜΑ (ΚΑΔΟΣ)

ΒΕΛΑΚΙ ΣΕ ΑΝΘΡΩΠΩ ΠΟΥ ΕΙΜΑΣΤΕ ΕΜΕΙΣ

ΒΕΛΑΚΙ ΣΕ ΥΠΟΛΟΓΙΣΤΗ

ΒΕΛΑΚΙ ΠΟΥ KANEI ΤΟ MODELING ΜΕ ΔΙΠΛΗ ΣΥΝΕΠΑΓΩΓΗ.

■ DATA SEARCH→DIRTY DATA→CLEANING→FINAL DATASET→HUMAN<-MLP LEARNING MODEL→RESULTS

Data Extraction Process

- Descriptive Analysis
- Explanatory Data Analysis



Model 1: Predict User's Gender from Username

Model 1: Predict User's Gender from Username

Model 2: What's Next Prediction

Model 2: What's Next Prediction

Model 3: Collaborative Filtering

Model 3: Collaborative Filtering

Model 4: Multi-Model

Model 4: Multi-Model

Για το Hyperparameter tuning

• Ή στο comparison ή στη 2^η σελιδα κάθε μοντέλου

Hyperparameter	Values
Epoch	
Optimizer	
Function used	
Layers (+αν εχουμε hidden)	
Penalty (αν υπαρχει)	

Model Comparison

 Σιγουρα το Accuracy των μοντελων και ένα πινακάκι μεταξυ τους + αν εχουμε καποιο ποσοστο για MLP + καποιο σχήμα με correlation αν υπαρχει για το μοντελο της αλεξ στο τασκ 3

Problems

Dataset for specific year

 Machine problem (need better pc with more RAM, lost time by finding google collab)

Github (compile packages)

Future Use as an application

- Companies
 - New company or start up try his luck against nova, ote, ertflix

- Sports Club
 - From viewers predict their opinions and create package friendly to them to watch their favorite teams







HOLY MOUNTAIN

MEL GIBSON'S









THE BIG PACKAGE HEAD TE FAMILY

DEN FLYVENDE GILJOTINE

DEMINISTRATE



METROPOLIS

















PLANET TERROR







MARQUIS



THE MAN WHO

SAVES THE WORLD

The

Turkish

Star Wars











