



Progettazione dei Sistemi Data-Driven

Progettazione dei Sistemi Data-Driven



Summary

About the Professor

Sylvio Barbon Junior



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04

Final Project Examples

Random examples of final projects

About the Course

Data-driven Systems Engineering 02



Requirements

Main expected background from the students

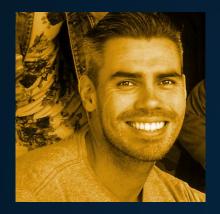
Course Goals

Main objectives and capacity to be developed

03







Sylvio Barbon Junior

About the Professor

Teaching:

- 2012-2021 Professor at the University of Londrina (Brazil)
- 2021 Professor at the University of Trieste

Research:

- Pattern Recognition and Machine Learning
- o Meta-Learning
- o Stream Mining
- Process Mining



About the Course

Course:

Data-driven Systems Engineering (Progettazione dei Sistemi Data-Driven)

Period:

Second Semester

Credits: 9

Duration: 72





About the Course



Python

- . Python Setup
- . Python Basics
- . Python Object Oriented
- . Python Libraries
- . Python for Machine Learning



Software Engineering

- . What and Why focus on S. Eng?
- . People and Rules
- . Feature and Concepts
- . Agile Methodology
- . Monitoring and Governance

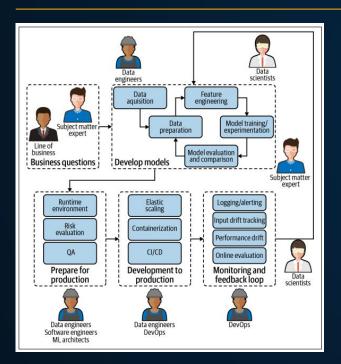


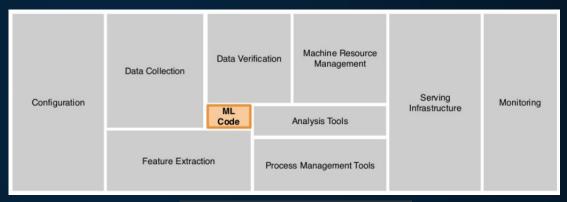
Machine Learning

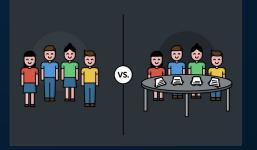
- . Data Representation
- . Problem Representation
- . Machine Learning Models
- . ML Design patterns
- . MLOps



About the Course







Progettazione dei Sistemi Data-Driven



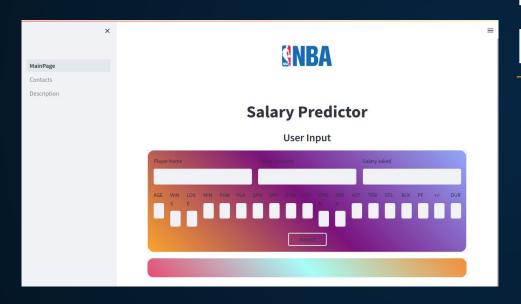


Course Goals

- Know the principles and techniques of the design and implementation of an Information System;
- Acquire the ability to design an information system, use independently the techniques and tools learned;
- Represent and display the knowledge learned using Machine Learning principles;
- Interpret and independently learn the evolution of methodologies and apply new techniques and design tools;

Progettazione dei Sistemi Data-Driven





Final project Examples

NBA Salary predictor

Progettazione dei Sistemi Data-Driven



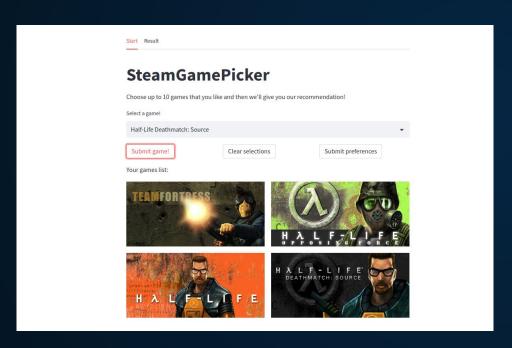
EmployeePrediction Hello! With this tool you will be able to see if you or an employee working for your company will leave in 2 years or Just take our quiz and let the magic begin! Begin!

Final project Examples

Employee Prediction Project:

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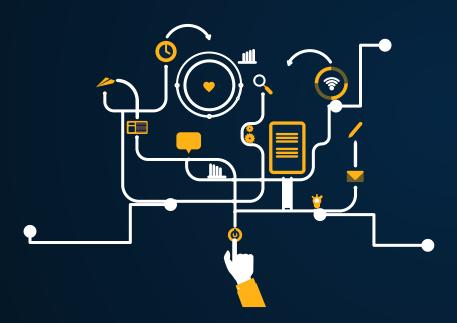


Final project Examples

Steam game recommender

Progettazione dei Sistemi Data-Driven





Requirements

- Knowledge of basic computer science elements
- Basic knowledge of data processing techniques
- Basic techniques for building databases
- Use of elementary IT tools such as text manager and spreadsheet
- Knowledge of machine learning



For any case, get in touch!

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