* Course Overview
* Course Introduction
  + Data Science: set of fundamental principles that guide the extraction of knowledge of data
  + Kaggle: data science competition
* Target Audience
* Course Prerequisite
* Data Science Project Cycle O…
  + Extract data
  + Organize data
  + Analyze and create models
  + Present
* Why Python for Data Science
  + Easy and intuitive
  + Tools and libraries
  + Active community
  + Scalability and fast
  + Production python based application stack
* Course Outline
  + Set up environment
  + Python distributions
  + Jupyter notebook
  + Data science project template
  + Versioning
  + Extracting data
    - Databases
    - Apis
    - Web scraping
    - Titanic dataset
    - Database connectors
    - Requests
    - Beautiful soup
  + Basic exploratory data analysis
  + Numpy
  + Panda
  + Advanced exploratory data analysis
  + Data munging(identifying issues)
  + Feature engineering
  + Visualization
  + Matplotlib
  + Machine learning
  + Build and evaluate models
  + Kaggle submission
  + Scikit-learn
  + Model tuning
  + Model persistence
  + Machine learning API
  + Pickle library
  + Flask library
* Summary
* Introduction