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| **List of potential topics to be covered**   * Intro (Conceptual issues) + Intro R vs Stata(base R) * Intro tidyverse + data visualization fundamentals + data Visualization using ggplot library + data cleaning (missing values, text analytics) * Recap regression models + Robust regression (identifying outliers + strategies to be implemented), funmodelling library- Pablo Casas * Instrumental variables estimation + 2SLS estimation * Time series forecasting using a machine learning approach * Panel data models (fixed, random and difference in difference estimation) * Binary choice models: Logit and Probit * Linear Selection Models (Lasso, backward…) * A gentle Introduction to Machine Learning * Unsupervised machine learning (PCA and Clustering) * Students presentations |
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