ITX2007 Outline

Comprehensive problem-solving mindset, principles, techniques and tools to deal with various facets of data science practices including data preparation and visualization, exploration, description and prediction required for knowledge extraction in both science and business domains

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| Week Topic(s)    1 Introduction to Data Science  2 Data Processing  3 Data Visualization 1  4 Data Visualization 2  5 Exploratory Data Analysis 1  6 Exploratory Data Analysis 2  7. Data Preprocessing 1/Class Presentation  8. Review and Discussion  Midterm Examination  9 Data Preprocessing 2  10 Statistical Inference  11 Machine Learning for Data Science 1  12 Machine Learning for Data Science 2  13 Machine Learning for Data Science 3  14 Machine Learning for Data Science 4  15 Presentation  Final Examination | Assessment   * Class assignments 20 * Project 30 * Midterm 20 * Final 30 |