**Course Outline (Machine Learning)**

**3 Chapters, 5 Machine Learning Algorithms, 8 Projects**

* **Chapter 1**: Introduction
  + Chapter 1.1: Introduction to Machine Learning
  + Chapter 1.2: Data Exploration
  + Chapter 1.3: Data Preprocessing
* **Chapter 2:** Supervised Learning
  + Chapter 2.1: Logistic Regression
    - Project 1: Titanic\_survival\_prediction
    - Project 2: Sign\_Language\_Prediction
    - Project 3: Brain\_Tumor\_Detction
  + Chapter 2.2: Support Vector Machine (SVM)
    - Project 1: Chatbot Development
  + Chapter 2.3: Linear Regression
    - Project 1: Car Price Prediction
    - Project 2: Gold Price Prediction
* **Chapter 3**: Unsupervised Learning
  + Chapter 3.1: KMeans Clustering
    - Project 1: Customer Segmentation
  + Chapter 3.2: Singular value decomposition
    - Project 1: Movie Recommendation