Student ML

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Week	Topics	Class 1	Class 2
1	Introduction to ML	ML introduction, types	Python for ML, libraries
2	Data Preprocessing & EDA	Data preprocessing techniques	Exploratory Data Analysis (EDA)
3	Supervised Learning: Regression	Linear Regression, Polynomial Regression	Evaluation metrics
4	Supervised Learning: Classification	Logistic Regression, Decision Trees	Random Forests, evaluation metrics
5	Advanced Supervised Learning	SVM, KNN, Ensemble methods	
6	Unsupervised Learning	K-Means Clustering, Hierarchical Clustering	Dimensionality reduction techniques
7	Neural Networks	Introduction to NN, feedforward NN	Backpropagation algorithm
8	Project Planning & Design	Project planning, dataset selection	Model training, hyperparameter tuning
9	Model Evaluation & Testing	Model evaluation, testing	Performance optimization, deployment
10	Final Project Presentation	Showcase project, discuss challenges	