30-Day ML Project Checklist

# Week 1: Regression Mastery (Days 1–7)

* ☐ Day 1: Simple Linear Regression
* ☐ Day 2–3: Multiple Linear Regression
* ☐ Day 4: Feature Normalization + RMSE Evaluation
* ☐ Day 5–6: Polynomial Regression
* ☐ Day 7: Compare All Models on One Dataset

# Week 2: Classification Algorithms (Days 8–14)

* ☐ Day 8–9: Logistic Regression
* ☐ Day 10: Decision Boundary Plotting
* ☐ Day 11: Softmax Regression (Multiclass)
* ☐ Day 12–13: K-Nearest Neighbors (KNN)
* ☐ Day 14: Dataset Application (Titanic, Spam, or Iris)

# Week 3: Tree & Probabilistic Models (Days 15–21)

* ☐ Day 15–16: Decision Tree (Gini / Entropy)
* ☐ Day 17: Tree Visualization (ASCII or DOT format)
* ☐ Day 18: Naive Bayes (Gaussian)
* ☐ Day 19: Multinomial Naive Bayes
* ☐ Day 20–21: Real-world Dataset (Sentiment or SMS Spam)

# Week 4: Unsupervised & Evaluation (Days 22–30)

* ☐ Day 22: K-Means Clustering
* ☐ Day 23: Elbow Method + Silhouette Score
* ☐ Day 24–25: PCA (Principal Component Analysis)
* ☐ Day 26–27: t-SNE / Manual Dimensionality Reduction
* ☐ Day 28: Model Comparison Project
* ☐ Day 29: Notebook Report with Plots
* ☐ Day 30: Write a Blog Post on Your Learnings