

# Grades for Plamen Stilyianov

Arrange by

Due date

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Apply

NAME	DUE	STATUS	SCORE	OUT OF	
Codio Activity 1.1: pandas Dataframes	6 Sep 2023 by 17:29		12	12	📝
Codio Activity 1.2: Exploring a Dataframe	6 Sep 2023 by 17:29		12	12	📝
Codio Activity 1.3: Selecting Data in Multiple Ways	6 Sep 2023 by 17:29		20	20	📝
Discussion 1.1: Applying the 'Black Box' Metaphor - Section C	6 Sep 2023 by 17:29		10	10	📝📋
Discussion 1.2: Data Repositories - Section C	6 Sep 2023 by 17:29		10	10	📝📋
Discussion 1.3: Creating Visualizations Using Personally-Sourced Data - Section C	6 Sep 2023 by 17:29		10	10	📝📋
Quiz 1.1: Introduction to Machine Learning	6 Sep 2023 by 17:29		25	25	📝
Tr Hi	6 Sep 2023 by 17:29		20	20	📝📋💬
Live Support	Bar				

NAME	DUE	STATUS	SCORE	OUT OF	
Plots					
Codio Activity 2.1: Uniform Python	13 Sep 2023 by 17:29		10	10	
Codio Activity 2.2: Measures of Central Tendency and Gaussian Distributions	13 Sep 2023 by 17:29		10	10	
Codio Activity 2.3: The Law of Large Numbers	13 Sep 2023 by 17:29		10	10	
Codio Activity 2.4: Measures of Center and Spread	13 Sep 2023 by 17:29		20	20	
Codio Activity 2.5: Plotting Multivariate Datasets	13 Sep 2023 by 17:29		20	20	
Codio Activity 2.6: Computing the Sample Covariance Matrix	13 Sep 2023 by 17:29		20	20	
Codio Activity 2.7: Approximating Correlation From Scatterplots	13 Sep 2023 by 17:29		25	25	
Codio Activity 2.8: Creating Histograms of Conditional Probabilities	13 Sep 2023 by 17:29		20	20	
Quiz 2.1: Fundamentals of Machine Learning	13 Sep 2023 by 17:29		25	25	

NAME	DUE	STATUS	SCORE	OUT OF	
<b>Try-It Activity 2.1: Applications of the Central Limit Theorem - Section C</b>	13 Sep 2023 by 17:29		20	20	 
<b>Try-It Activity 2.2: Creating and Interpreting a Pair Plot - Section C</b>	13 Sep 2023 by 17:29		20	20	 
<b>Codio Activity 3.1: pandas Basics</b>	20 Sep 2023 by 17:29		10	10	
<b>Codio Activity 3.3: Replicating Data Visualizations</b>	20 Sep 2023 by 17:29		10	10	
<b>Codio Activity 3.4: Aggregation Operations</b>	20 Sep 2023 by 17:29		10	10	
<b>Codio Activity 3.5: Sorting and Aggregating</b>	20 Sep 2023 by 17:29		10	10	
<b>Codio Activity 3.6: Indexing</b>	20 Sep 2023 by 17:29		10	10	
<b>Codio Activity 3.7: Filtering</b>	20 Sep 2023 by 17:29		10	10	
<b>Codio Activity 3.8: Combining Data Analysis Techniques</b>	20 Sep 2023 by 17:29		10	10	
<b>Discussion 3.1: The Applications of the Data Science Lifecycle - Section C</b>	20 Sep 2023 by 17:29		10	10	 

NAME	DUE	STATUS	SCORE	OUT OF	
junCodio Activity 3.2: The Basics of Data Visualization	20 Sep 2023 by 17:29		16	16	
Quiz 3.1: Introduction to Data Analysis	20 Sep 2023 by 17:29		25	25	
Try-It Activity 3.1: Creating Data Visualizations - Section C	20 Sep 2023 by 17:29		10	10	
Codio Activity 4.1: Basic Joins on Datasets	27 Sep 2023 by 17:29		10	10	
Codio Activity 4.2: Complex Joins on Datasets	27 Sep 2023 by 17:29		10	10	
Codio Activity 4.3: Creating Scatterplots, Histograms, and Distribution Plots	27 Sep 2023 by 17:29		12	12	
Codio Activity 4.4: Creating Violin, Box, and Joint Plots	27 Sep 2023 by 17:29		20	20	
Codio Activity 4.5: String Operations	27 Sep 2023 by 17:29		20	20	
Codio Activity 4.6: Data Cleaning	27 Sep 2023 by 17:29		40	40	
Quiz 4.1: Fundamentals of Data Analysis	27 Sep 2023 by 17:29		25	25	

NAME	DUE	STATUS	SCORE	OUT OF	
Try-It Activity 4.1: More Sophisticated Plotting - Section C	27 Sep 2023 by 17:29		10	10	 
Try-It Activity 4.2: Analyzing a Real-World Dataset - Section C	27 Sep 2023 by 17:29		10	10	 
Practical Application Assignment 5.1: Will the Customer Accept the Coupon?	4 Oct 2023 by 17:29		100	100	 
Codio Activity 6.1: Applying Singular Value Decomposition (SVD)	18 Oct 2023 by 17:29		20	20	
Codio Activity 6.2: Analyzing the Results of PCA	18 Oct 2023 by 17:29		20	20	
Codio Activity 6.3: Plotting and Interpreting Singular Values	18 Oct 2023 by 17:29		20	20	
Codio Activity 6.4: Adjusting Parameters for Variance	18 Oct 2023 by 17:29		20	20	
Codio Activity 6.5: Creating the K-Means Algorithm	18 Oct 2023 by 17:29		18	18	

NAME	DUE	STATUS	SCORE	OUT OF	
<b>Codio Activity 6.6: Applying K-Means in Python</b>	18 Oct 2023 by 17:29		10	10	
<b>Codio Activity 6.7: Conducting K-Means in Scikit-Learn</b>	18 Oct 2023 by 17:29		24	24	
<b>Codio Activity 6.8: Running PCA with Clustering</b>	18 Oct 2023 by 17:29		36	36	
<b>Codio Activity 6.9: Running DBSCAN</b>	18 Oct 2023 by 17:29		20	20	
<b>Quiz 6.1: Data Clustering and Principal Component Analysis (PCA)</b>	18 Oct 2023 by 17:29		25	25	
<b>Try-It Activity 6.1: Summarizing Data with PCA - Section C</b>	18 Oct 2023 by 17:29		10	10	
<b>Try-It Activity 6.2: Interpreting the Results of K-Means and PCA - Section C</b>	18 Oct 2023 by 17:29		10	10	
<b>Codio Activity 7.1: Fitting a Simple Linear Regression Line Using Plotly and Scikit-Learn</b>	25 Oct 2023 by 17:29		20	20	
<b>Codio Activity 7.2: Defining, Computing, and Optimizing Loss</b>	25 Oct 2023 by 17:29		20	20	

NAME	DUE	STATUS	SCORE	OUT OF	
Codio Activity 7.3: Using SciPy Optimize To Optimize L2 Loss	25 Oct 2023 by 17:29		15	15	
Codio Activity 7.4: Mean Absolute Loss (MAE)	25 Oct 2023 by 17:29		15	15	
Codio Activity 7.5: Calculating Multiple Loss Functions	25 Oct 2023 by 17:29		20	20	
Codio Activity 7.6: Multiple Linear Regression	25 Oct 2023 by 17:29		20	20	
Codio Activity 7.7: Using Non-Numeric Features	25 Oct 2023 by 17:29		40	40	
Quiz 7.1: Linear and Multiple Regressions	25 Oct 2023 by 17:29		25	25	
Codio Activity 8.6: Using Validation to Select the Best Combination of Parameters	1 Nov 2023 by 16:29		35	35	
Codio Activity 8.1: Adding Nonlinear Features	1 Nov 2023 by 16:29		20	20	
Codio Activity 8.2: Using Polynomial Features	1 Nov 2023 by 16:29		20	20	
Codio Activity 8.3: Scikit-Learn Pipelines	1 Nov 2023 by 16:29		24	24	

NAME	DUE	STATUS	SCORE	OUT OF	
Codio Activity 8.4: Fitting Higher Order Polynomials	1 Nov 2023 by 16:29		20	20	
Codio Activity 8.5: Comparing Complexity and Variance	1 Nov 2023 by 16:29		35	35	
Codio Activity 8.7: Evaluating Multiple Models	1 Nov 2023 by 16:29		100	100	
Discussion 8.1: Prediction vs. Inference - Section C	1 Nov 2023 by 16:29		10	10	
Quiz 8.1: Feature Engineering and Overfitting	1 Nov 2023 by 16:29	LATE	25	25	
Try-It Activity 8.1: The “Best” Model - Section C	1 Nov 2023 by 16:29		10	10	
Codio Activity 9.1: Sequential Feature Selection	8 Nov 2023 by 16:29		70	70	
Codio Activity 9.2: Cross-Validation with SequentialFeatureSelector	8 Nov 2023 by 16:29		60	60	
Codio Activity 9.3: A First Look at the Ridge Regression Model	8 Nov 2023 by 16:29		30	30	



NAME	DUE	STATUS	SCORE	OUT OF	
Codio Activity 9.4: Comparing the Ridge to Ordinary Least Squares (OLS)	8 Nov 2023 by 16:29		30	30	
Codio Activity 9.5: Using StandardScaler	8 Nov 2023 by 16:29		40	40	
Codio Activity 9.6: Using GridSearchCV	8 Nov 2023 by 16:29		40	40	
Codio Activity 9.7: Ridge vs. Sequential Feature Selection	8 Nov 2023 by 16:29		40	40	
Codio Activity 9.8: LASSO and Sequential Feature Selection	8 Nov 2023 by 16:29		50	50	
Discussion 9.1: Which Cross-Validation Is Best? - Section C	8 Nov 2023 by 16:29		10	10	
Quiz 9.1: Model Selection and Regularization	8 Nov 2023 by 16:29		25	25	
Try-It Activity 9.1: LASSO vs. SFS - Section C	8 Nov 2023 by 16:29		10	10	
Try-It Activity 9.2: Conclusion Exercise - Section C	8 Nov 2023 by 16:29		10	10	
Codio Activity 10.1: Working with Dates in pandas	15 Nov 2023 by 16:29		40	40	

NAME	DUE	STATUS	SCORE	OUT OF	
Codio Activity 10.2: Computing Autocorrelation	15 Nov 2023 by 16:29		50	50	
Codio Activity 10.3: Decomposition	15 Nov 2023 by 16:29		40	40	
Codio Activity 10.4: Hypothesis Testing for Stationarity	15 Nov 2023 by 16:29		30	30	
Codio Activity 10.5: ACF and PACF Plots for ARMA Models	15 Nov 2023 by 16:29		70	70	
Codio Activity 10.6: Time Series and Sales	15 Nov 2023 by 16:29		50	50	
Quiz 10.1: Time Series Analysis and Forecasting	15 Nov 2023 by 16:29		25	25	
Try-It Activity 10.1: Decomposing Time Series - Section C	15 Nov 2023 by 16:29		10	10	
Try-It Activity 10.2: Forecasting with Decomposition Models - Section C	15 Nov 2023 by 16:29		10	10	
Try-It Activity 10.3: Building and Evaluating ARMA Models - Section C	15 Nov 2023 by 16:29		10	10	

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Capstone Project 11.1: Initial Question and Data	22 Nov 2023 by 16:29	LATE	20	20	  
Practical Application Assignment 11.1: What Drives the Price of a Car?	22 Nov 2023 by 16:29	LATE	105	105	 
Codio Activity 12.1: Introduction to K-Nearest Neighbors	6 Dec 2023 by 16:29		50	50	
Codio Activity 12.2: Identifying the Best K	6 Dec 2023 by 16:29		50	50	
Codio Activity 12.3: Decision Boundaries	6 Dec 2023 by 16:29		55	55	
Codio Activity 12.4: Accuracy, Precision, and Recall	6 Dec 2023 by 16:29		55	55	
Codio Activity 12.5: Confusion Matrices and Metrics for Classification	6 Dec 2023 by 16:29		50	50	
Codio Activity 12.6: Evaluation Curves – Precision vs. Recall and ROC	6 Dec 2023 by 16:29		60	60	
Codio Activity 12.7: KNN for Regression and Imputation	6 Dec 2023 by 16:29		50	50	

NAME	DUE	STATUS	SCORE	OUT OF
Quiz 12.1: Classification and K-Nearest Neighbors	6 Dec 2023 by 16:29		25	25
Try-It Activity 12.1: Choosing the Right Metric - Section C	6 Dec 2023 by 16:29		10	10
Codio Activity 13.1: Binary Classification with Regression	13 Dec 2023 by 16:29		45	45
Codio Activity 13.2: Introduction to Logistic Regression with Scikit-Learn	13 Dec 2023 by 16:29		60	60
Codio Activity 13.3: Determining the Logistic Functions Parameters	13 Dec 2023 by 16:29		50	50
Codio Activity 13.4: Decision Boundaries with Two Variables	13 Dec 2023 by 16:29		40	40
Codio Activity 13.5: Experimenting with $\beta_0$ and $\beta_1$ in Logistic Function	13 Dec 2023 by 16:29		40	40
Codio Activity 13.6: Using L1 Regularization to Select Features	13 Dec 2023 by 16:29		60	60
Codio Activity 13.7: Multiclass Logistic Regression	13 Dec 2023 by 16:29		60	60

NAME	DUE	STATUS	SCORE	OUT OF	
Codio Activity 13.8: End-to-End Classification Problem	13 Dec 2023 by 16:29		85	85	
Discussion 13.1: Business Application of Logistic Regression - Section C	13 Dec 2023 by 16:29		10	10	
Quiz 13.1: Logistic Regression	13 Dec 2023 by 16:29		20	20	
Try-It Activity 13.1: Using Logistic Regression to Make Business Decisions - Section C	13 Dec 2023 by 16:29		10	10	
Codio Activity 14.1: Decision Trees in Scikit-Learn	20 Dec 2023 by 16:29		50	50	
Codio Activity 14.2: Visualizing a Decision Tree	20 Dec 2023 by 16:29		40	40	
Codio Activity 14.3: Examining Purity	20 Dec 2023 by 16:29		50	50	
Codio Activity 14.4: Using Entropy	20 Dec 2023 by 16:29		50	50	
Codio Activity 14.5: Preventing Overfitting by Limiting Growth	20 Dec 2023 by 16:29		50	50	

NAME	DUE	STATUS	SCORE	OUT OF	
<b>Codio Activity 14.6: Pruning a Tree after Fitting</b>	20 Dec 2023 by 16:29		50	50	
<b>Discussion 14.1: You Already Use Decision Trees - Section C</b>	20 Dec 2023 by 16:29		10	10	  
<b>Quiz 14.1: Decision Trees</b>	20 Dec 2023 by 16:29		25	25	 
<b>Try-It Activity 14.1: Generating Overfit Models - Section C</b>	20 Dec 2023 by 16:29		10	10	 
<b>Try-It Activity 14.2: Grid Searching Decision Trees - Section C</b>	20 Dec 2023 by 16:29		10	10	 
<b>Codio Activity 15.1: Introduction to Gradient Descent</b>	10 Jan by 16:29		50	50	
<b>Codio Activity 15.2: Manual Gradient Descent</b>	10 Jan by 16:29		45	45	
<b>Codio Activity 15.3: Gradient Descent and Linear Regression</b>	10 Jan by 16:29		50	50	
<b>Codio Activity 15.4: Convexity</b>	10 Jan by 16:29		50	50	
<b>Codio Activity 15.5: Concavity with Second Derivatives</b>	10 Jan by 16:29		15	15	

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Codio Activity 15.6: Computing the Gradient of a Two-Dimensional Function	10 Jan by 16:29		10	10	
Codio Activity 15.7: Gradient Descent with Two Features	10 Jan by 16:29		40	40	
Codio Activity 15.8: Tracing the Descent	10 Jan by 16:29		20	20	
Codio Activity 15.9: Stochastic Gradient Descent	10 Jan by 16:29		20	20	
Codio Activity 15.10: Comparing Gradient Descent with Stochastic Gradient Descent	10 Jan by 16:29		40	40	
Codio Activity 15.11: The Bias–Variance Tradeoff	10 Jan by 16:29		30	30	
Quiz 15.1: Gradient Descent Optimization	10 Jan by 16:29		25	25	
Codio Activity 16.1: Polynomial Features and Classification	17 Jan by 16:29		30	30	
Codio Activity 16.2: Decision Boundaries for Different Classification Models	17 Jan by 16:29		50	50	



NAME	DUE	STATUS	SCORE	OUT OF	
Codio Activity 16.3: Fitting Models with Kernel Functions	17 Jan by 16:29		35	35	
Codio Activity 16.4: Using Scikit-Learn's Kernel Functions	17 Jan by 16:29		30	30	
Codio Activity 16.5: Comparing Margins in Classifiers	17 Jan by 16:29		45	45	
Codio Activity 16.6: Maximum Margin Classifier	17 Jan by 16:29		25	25	
Codio Activity 16.7: Visualizing Decision Boundaries	17 Jan by 16:29		40	40	
Codio Activity 16.8: Tuning the 'SVC' Classifier	17 Jan by 16:29		40	40	
Codio Activity 16.9: Investigating Your Own Data	17 Jan by 16:29		50	50	
Quiz 16.1: Support Vector Machines (SVMs)	17 Jan by 16:29		15	15	
Try-It Activity 16.1: Comparing Models - Section C	17 Jan by 16:29		10	10	







NAME	DUE	STATUS	SCORE	OUT OF	
Capstone Project 17.1: Problem Statement - Section C	24 Jan by 16:29	LATE	10	10	 
Practical Application Assignment 17.1: Comparing Classifiers	24 Jan by 16:29		105	105	 
Codio Activity 18.1: Tokenization	7 Feb by 16:29		60	60	
Codio Activity 18.2: Named Entities	7 Feb by 16:29		30	30	
Codio Activity 18.3: Stemming and Lemmatization	7 Feb by 16:29		25	25	
Codio Activity 18.4: Bag of Words: Count Vectorization	7 Feb by 16:29		25	25	
Codio Activity 18.5: TF-IDF	7 Feb by 16:29		60	60	
Codio Activity 18.6: Naive Bayes Algorithm	7 Feb by 16:29		35	35	
Quiz 18.1: Natural Language Processing (NLP)	7 Feb by 16:29		20	20	
Try-It Activity 18.1: Comparing Methods - Section C	7 Feb by 16:29		10	10	 

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Codio Activity 19.5: Distance Based Recommendations	14 Feb by 16:29		40	40	
Codio Activity 19.3: Collaborative Filtering	14 Feb by 16:29		50	50	
Codio Activity 19.4: Implementing Funk SVD	14 Feb by 16:29		40	40	
Codio Activity 19.6: Using SURPRISE	14 Feb by 16:29		50	50	
Discussion 19.1: A 'Surprising' Recommendation - Section C	14 Feb by 16:29		10	10	
Quiz 19.1: Recommendation Systems	14 Feb by 16:29		25	25	
Try-It Activity 19.1: Building a Recommender System with SURPRISE - Section C	14 Feb by 16:29		10	10	
Codio Activity 19.1: Regression Models for Predictions	14 Feb by 16:29		50	50	
Codio Activity 19.2: Models with User Feedback Values	14 Feb by 16:29		20	20	
Codio Activity 19.7: Hybrid Recommendations with SURPRISE	14 Feb by 16:29		50	50	

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<b>Capstone Project 20.1: Initial Report and Exploratory Data Analysis (EDA)</b>	21 Feb by 16:29		80	80	 
<b>Codio Activity 21.1: Wisdom of the Crowd</b>	28 Feb by 16:29		30	30	
<b>Codio Activity 21.2: Basic Aggregating of Models</b>	28 Feb by 16:29		60	60	
<b>Codio Activity 21.3: Implementing Bootstrapping</b>	28 Feb by 16:29		30	30	
<b>Codio Activity 21.4: Implementing Bagging</b>	28 Feb by 16:29		50	50	
<b>Codio Activity 21.5: Implementing Random Forests</b>	28 Feb by 16:29		30	30	
<b>Codio Activity 21.6: Implementing the AdaBoost Algorithm</b>	28 Feb by 16:29		50	50	
<b>Codio Activity 21.7: Gradient Boosting</b>	28 Feb by 16:29		30	30	
<b>Quiz 21.1 Ensemble Techniques</b>	28 Feb by 16:29		25	25	

NAME	DUE	STATUS	SCORE	OUT OF	
<b>Try-It Activity 21.1: Comparing Aggregate Models for Regression - Section C</b>	28 Feb by 16:29		10	10	 
<b>Codio Activity 22.1: A Simple Network</b>	6 Mar by 16:29		50	50	
<b>Codio Activity 22.2: Multiple Nodes</b>	6 Mar by 16:29		60	60	
<b>Codio Activity 22.3: Basic Weight Update</b>	6 Mar by 16:29		60	60	
<b>Codio Activity 22.4: Using Keras</b>	6 Mar by 16:29		50	50	
<b>Codio Activity 22.5: Full Network Example</b>	6 Mar by 16:29		30	30	
<b>Codio Activity 22.6: Using a Neural Net for Non-Concentric Data</b>	6 Mar by 16:29		20	20	
<b>Codio Activity 22.7: Multiclass Classification with Keras</b>	6 Mar by 16:29		60	60	
<b>Codio Activity 22.8: Hyperparameter Tuning with Keras</b>	6 Mar by 16:29		40	40	
<b>Codio Activity 22.9: End-to-End Classification with Keras</b>	6 Mar by 16:29		20	20	

NAME	DUE	STATUS	SCORE	OUT OF	
Quiz 22.1: Deep Neural Networks 1	6 Mar by 16:29		25	25	
Codio Activity 23.1: Basic Neural Net for Image Data	13 Mar by 16:29		30	30	
Codio Activity 23.2: Convolutional Neural Network	13 Mar by 16:29		40	40	
Codio Activity 23.3: Using a Pretrained Network	13 Mar by 16:29		50	50	
Codio Activity 23.4: Fine-Tuning a Pretrained Network	13 Mar by 16:29		30	30	
Codio Activity 23.5: Neural Networks for Regression	13 Mar by 16:29		40	40	
Discussion 23.1: Personal Application - Section C	13 Mar by 16:29		10	10	 
Quiz 23.1: Deep Neural Networks 2	13 Mar by 16:29		25	25	
Try-It Activity 23.1: Visualizing Convolutional Layers - Section C	13 Mar by 16:29		10	10	 

NAME	DUE	STATUS	SCORE	OUT OF	
Try-It Activity 23.2: Sequential Data Models with Keras - Section C	13 Mar by 16:29		10	10	 
Capstone Project 24.1: Final Report	20 Mar by 16:29		100	100	 
CODIO ACTIVITIES			100%	4,819.00 / 4,819.00	
END-OF-MODULE QUIZZES			100%	455.00 / 455.00	
DISCUSSIONS/TRY-IT ACTIVITIES			100%	380.00 / 380.00	
PRACTICAL APPLICATION PROBLEMS			100%	310.00 / 310.00	
CAPSTONE PROJECT PART 1			100%	100.00 / 100.00	
CAPSTONE PROJECT PART 2			100%	100.00 / 100.00	
TOTAL			100%		