## Data Analysis with Python Cheat Sheet: Model Development

Process	Description		Code Example
Linear Regression	Create a Linear Regression model object	1.1 2.2 3.1 makkern.liner.model.import.LinearRegression 2.1 re - LinearRegression() Gooden	
Train Linear Regression model	Train the Linear Regression model on decided data, separating Input and Output attributes. When there is single attribute in input, then it is simple linear regression. When there are multiple attributes, it is multiple linear regression.	1. 1 2. 2 3. 2 4. 3 5. 4 5. 4 5. 7 6. ([Strinder, 2], 'strinder, 2',]) 5. 7 6. 4 ([Strinder, 2], 'strinder, 2',]) 5. (c.full) 6. 6 ([Strinder, 2], 'strinder, 2',]) 6. 7 6. 7 6. 7 6. 7 6. 7 6. 7 6. 7 6. 7	
Cenerate output predictions	Predict the output for a set of Input attribute values.	1. 1 1. 7_but = \(\bar{\text{L-product}}(I)\) (Copine)	
Identify the coefficient and intercept	Identify the slope coefficient and intercept values of the linear regression model defined by $\hat{y} = mx + c$ Where m is the slope coefficient and c is the intercept.	1. 1 1. care = lr.corf 2 starcopt = lr.instroopt_ Company	
Residual Plot	This function will regress y on x (possibly as a robust or polynomial regression) and then draw a scatterplot of the residuals.	1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1	
Distribution Plot	This function can be used to plot the distribution of data w.r.t. a given attribute.	1.1 2.2 2.2 2.3 2.4 2.5 2.5 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	
Polynomial Regression	Available under the numpy package, for single variable feature creation and model fitting.	1. 1 2. 2 3. 3 4. 5 5. 6 6. 6 magnifyfits, pr. n. 6. 6 magnifyfits, pr. n. 7. 6 magnifyfits, pr. n. 7. 6 magnifyfits, pr. n. 8. 7 magnifyfits, pr. n. 8. 8 magnifyfits, pr. n. 8	
Multi-variate Polynomial Regression	Generate a new feature matrix consisting of all polynomial combinations of the features with the degree less than or equal to the specified degree.	1. 1 2. 2 3. 3 4. 4 5. 1	
Pspeline	Data Psyclines simplify the steps of processing the data. We create the pipeline by creating a list of tuples including the name of the model or estimator and its corresponding constructor.	1. 1 2. 2 3. 4 3. 5 4. 6 5. 6 5. 7 7. 8 7. 10 mm whiters pipeline (appr. Figst lose 1. 1 mm whiters pipeline (appr. Figst lose 2. 1 mm whiters pipeline (appr. Figst lose 3. 1 mm whiters pipeline (appr. Figst lose 4. 1 mm whiters pipeline (appr. Figst lose 4. 1 mm whiters pipeline 5. 1 mm whiters pipeline 6. 2 mm whiters 6. 2 mm whiters 6. 2 mm whiters 6. 3 mm whiters 6. 4 mm whiters 6. 4 mm whiters 6. 4 mm whiters 6. 6 mm whiters 6. 6 mm whiters 6. 6 mm whiters 6. 6 mm whiters 6. 7 mm whiters 6. 7 mm whiters 6. 6 mm whiters 6. 7 mm whiters	
$\mathbb{R}^{n}2$ value	R^2, also known as the coefficient of determination, is a measure to indicate how close the data is to the fitted regression line. The value of the Requared in the percentage of variation of the response variable (y) that is explained by a linear model.  b. For Pelynomial regression (single or multi attribute)	h.  2. 1 2. 2 3. 3 4. 5 4. 6 4. 6 4 (((((((((((((((((((((((((((((((((	
MSE value	The Mean Squared Error measures the average of the squares of errors, that is, the difference between actual value and the estimated value.	1.) 2. Pa sharm.metrics import mean_squared error 2. new -mean_squared error(7, Thei) Complete	

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