SNo	Course Name	Course Link	Total hour
		Statistics	
1	Intro to Descriptive Statistics	https://in.udacity.com/course/intro-to-descriptive-statisticsud827	26
2	Intro to Inferential Statistics	https://in.udacity.com/course/intro-to-inferential-statisticsud201	32
		Python	
3	Introduction to Python	https://in.udacity.com/course/introduction-to-pythonud1110	16
4	Intro to Data Analysis	https://in.udacity.com/course/intro-to-data-analysisud170	16
5	Using Python for Research	https://www.edx.org/course/using-python-research-harvardx-ph526x-0	20
		Machine learning	
6	Machine Learning	https://in.udacity.com/course/machine-learning-ud262	
7	Machine Learning	https://in.udacity.com/course/intro-to-machine-learningud120	20
		Total	165
	Coding Resources:	https://drive.google.com/drive/folders/1qxj8Drmml9vH-6Hp_dC0pNmNH_E-h-lw?usp=	
	Other References:	https://www.coursera.org/learn/machine-learning	
		https://software.intel.com/en-us/ai/courses/machine-learning	
		https://scikit-learn.org/stable/	

No	Project	Language	Topics Covered	Submission files
	1 Titanic Survival Exploration	Python2 or Python3	Making Predictions: Basic python, data cleaning, data exploration, decision making from visuals	titanic_survival_exploration.ipynb 2.report.html
	2 Boston House Pricing	Python2 or Python3	Model Evaluation and Validation: Statistical Analysis(Mean,median,mode,standard deviation) Split the data into training and testing Metrics: Accuracy,recall,precision,F1_score,r2_score Learning curves,cross validation,Gridserach CV	boston_housing.ipynb report.html
	3 Finding Donors	Python2 or Python3	Supervised Learning: Data preprocessing: Exploration,Normalize the numerical,One hot encoding of no numerical data Split the data as tarining and Testing Evaluation of Model: calculating metrics for basic model Selection of three suitable algorithms for classification Choosing the best model and optimize it by tuning Hyperparameters Effect of feature selection	1.finding_donors.ipynb 2.report.html
	4 Customer segments	Python2 or Python3	Unsupervised Learning: Feature Relevance Correlation between features using scatter matrix Normalize the data, Finout outliers using interquartile range PCA, dimensionality reduction, biplot Clustering Agorithms: K-Means, Gaussian Mixture Model A/B Testing	customer_segments.ipynb report.html
	5 Smartcab	Python2	Reinforcement Learning: Q Learning, Train the Basic Driving Agent with out leraning, Q Table creation and Q Table Upadation with Learning For each case calculate safety and reliability rating	agent.py logs folder with 5 log files smartcab.ipynb report.html
	6 Dog breed Classifier	Python 3	Deep Learning: OpenCV library for images Human Face Detector Dog Detectror Creating Own Neural Network for Dog Breed classifier (133 Breeds) Use Transfer Learning for above Model	1.dog_app.ipynb 2. report.html 3. Addtinal Images you have used
7	Capstone Proposal		Select your own dataset try to take a dataset with atleast 500 instances You can take your dataset from UCI or Kaggle Take the dataset from your own mobile App or college data.(Real time data)	
	7 Capstone Project	Python 2 or Python 3	You need to do the project from scratch and preapare documentation as well.	
		Projects Link:	https://github.com/udacity/machine-learning/tree/master	
			https://qithub.com/udacity/dog-project	