Challenge: Graduate Admissions

Machine Learning Design Challenge 1

This dataset contains parameters which are considered in MA admission processes of Indian MA programs. Tulsi is interested in applying and wants to find what her chances are for getting in with her current scores.	Sample data: Serial No., GRE Score, TOEFL Score, University Rating, SOP, LOR, CGPA, Research, Chance of Admit	Data set size: 400	Team members:	
Predictable: Chance of Admit Solution alternatives:	1,337,118,4,4.5,4.5,9.65,1,0.92 2,324,107,4,4,4.5,8.87,1,0.76 3,316,104,3,3,3.5,8,1,0.72 4,322,110,3,3.5,2.5,8.67,1,0.8 5,314,103,2,2,3,8.21,0,0.65	Implementation confusion matrix:		

Notes and thoughts:

Challenge: Black Friday

Machine Learning Design Challenge 2

This dataset contains information about customer behaviour at a retail store. The owner of the store is curious to know how much different customers are likely to purchase.

The store owner might also be interested in what kind of customers go for a certain product category.

Sample data:

Data set size:

Team members:

537577

User_ID, Product_ID, Gender, Age, Occupation, City_Category, Stay_In_Current_City_Years, Marital_Status, Product_Category_1, Product_Category_2,

Product_Category_3, Purchase

Implementation confusion matrix:

1000001,P00069042,F,0-17,10,A,2,0, 3,,,8370 1000001,P00248942,F,0-17,10,A,2,0,

1,6,14,15200

1000002,P00285442,M,55+,16,C,4+,

0,8,,,7969

Solution alternatives:

Possible pitfalls:

Notes and thoughts:

Challenge: Mall Customers

Machine Learning Design Challenge 3

This dataset describes a supermarket with memberships. Though these membership registrations you have acquired information about the customers and their spending habits. You want to understand the customers better in order to plan and create strategies for development, including creating a more personalized shopping experience for all kinds of customers. What kinds of customers are there?	Sample data: CustomerID, Gender, Age, Annual Income (k\$), Spending Score (1-100)	Data set size:	Team membe	ers:
	1,Male,19,15,39 2,Male,21,15,81 3,Female,20,16,6 4,Female,23,16,77 5,Female,31,17,40	Implementation confusion matrix:		
Solution alternatives:	Possible pitfalls:			
		Notes and thoughts	S:	

Challenge: Diabetes Data

Machine Learning Design Challenge 4

This dataset is originally from the National Institute of Diabetes and Digestive and Kidney Diseases. The objective of the dataset is to diagnostically predict whether or not a patient has diabetes, based on certain diagnostic measurements included in the dataset.	Sample data: Pregnancies, Glucose, Blood Pressure, Skin Thickness, Insulin, BMI, Diabetes Pedigree Function, Age, Outcome	Data set size: 768	Team members:	
Predictable: Outcome (1 = Diabetes, 0 = Not diabetes)	6,148,72,35,0,33.6,0.627,50,1 1,85,66,29,0,26.6,0.351,31,0 8,183,64,0,0,23.3,0.672,32,1 1,89,66,23,94,28.1,0.167,21,0 0,137,40,35,168,43.1,2.288,33,1	Implementation confusion matrix:		
Solution alternatives:	Possible pitfalls:			
		Notes and thoughts:		