**Solution Sheet**

1. Which model have you used for Total IPL 2020 Runs prediction for each player? Explain your model.

The model used was XGBOOST. It is an ensemble based model. The model parameters are : base\_score=0.5, booster='dart',

colsample\_bylevel=1,colsample\_bynode=1,

colsample\_bytree=1, gamma=0, gpu\_id=-1,

importance\_type='total\_gain',

interaction\_constraints='', learning\_rate=0.088,

max\_delta\_step=0, max\_depth=1,

min\_child\_weight=0.5, missing=np.nan,

monotone\_constraints='()',n\_estimators=900,

n\_jobs=1, normalize\_type='forest',

num\_parallel\_tree=1,

objective='reg:squarederror',

random\_st ate=0, reg\_alpha=0.0, reg\_lambda=1,

scale\_pos\_weight=1,

single\_precision\_histogram=True,

subsample=1, tree\_method='hist’,

validate\_parameters=1, verbosity=None