INSOFE Mid-Term Hackathon: July 2018

Efficient project management by Employee Over-Time prediction

A manufacturing unit is consistently facing project over-time to finish. This is usually a sign for poor project planning or resource allocation. Now the company has decided smartly allocate the resource based on ML models. One indicator they have about project going out-of-budget is number of employees working overtime. If a good predictive model can help them predict which employees are expected to do overtime, then they can balance the resource allocation accordingly.

Your job is to build a Machine Learning model which will predict whether an employee will bill overtime on a project or not.

Evaluation Metric: If Accuracy>65 then give the score for Recall

Datasets:

You have been provided **MiTHDataset.csv** which contains both train and test samples. A sample can be treated as train sample If istrain=1 otherwise it is treated as test sample. Train samples has Target value, whereas test samples does not have Target value. It was kept as NA.

You need to predict Target for the test samples and upload your predictions in the samplesubmission.csv format.

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Attributes:

S.NO	Attribute	S.NO	Attribute
1	Age	20	NumberofCompaniesChanged
2	Frequencyof_Travel	21	Over18
3	DailyRate	22	Working Extratime(Target)
4	Division	23	PercentSalaryHike
5	DistancetoOffice	24	PerformanceRating
6	Education	25	RelationshipSatisfaction
7	Specialization	26	StandardHours
8	No.of Employees	27	ESOPs(stackoptions)
9	EmployeeID	28	DateOnwhich_datacollected
10	OfficeAmbianceRating	29	NoofTrainings_Attended
11	Gender	30	WorkLifeBalance
12	HourlyRate	31	DateOfjoininginthe_CurrentCompany
13	SelfMotivated	32	No of years with current designation
14	JobLevel	33	YearsSinceLastPromotion
15	Designation	34	YearsWithCurrManager
16	Happynesslevel in job	35	Istrain- (1 train sample,0 test sample)
17	MaritalStatus	36	NoofTrainings_Attended
18	SalaryperMonth	37	WorkLifeBalance
19	MonthlyRate		