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Statistical Model to Find Whether Employee will Back to Office or Not at the End of WFH

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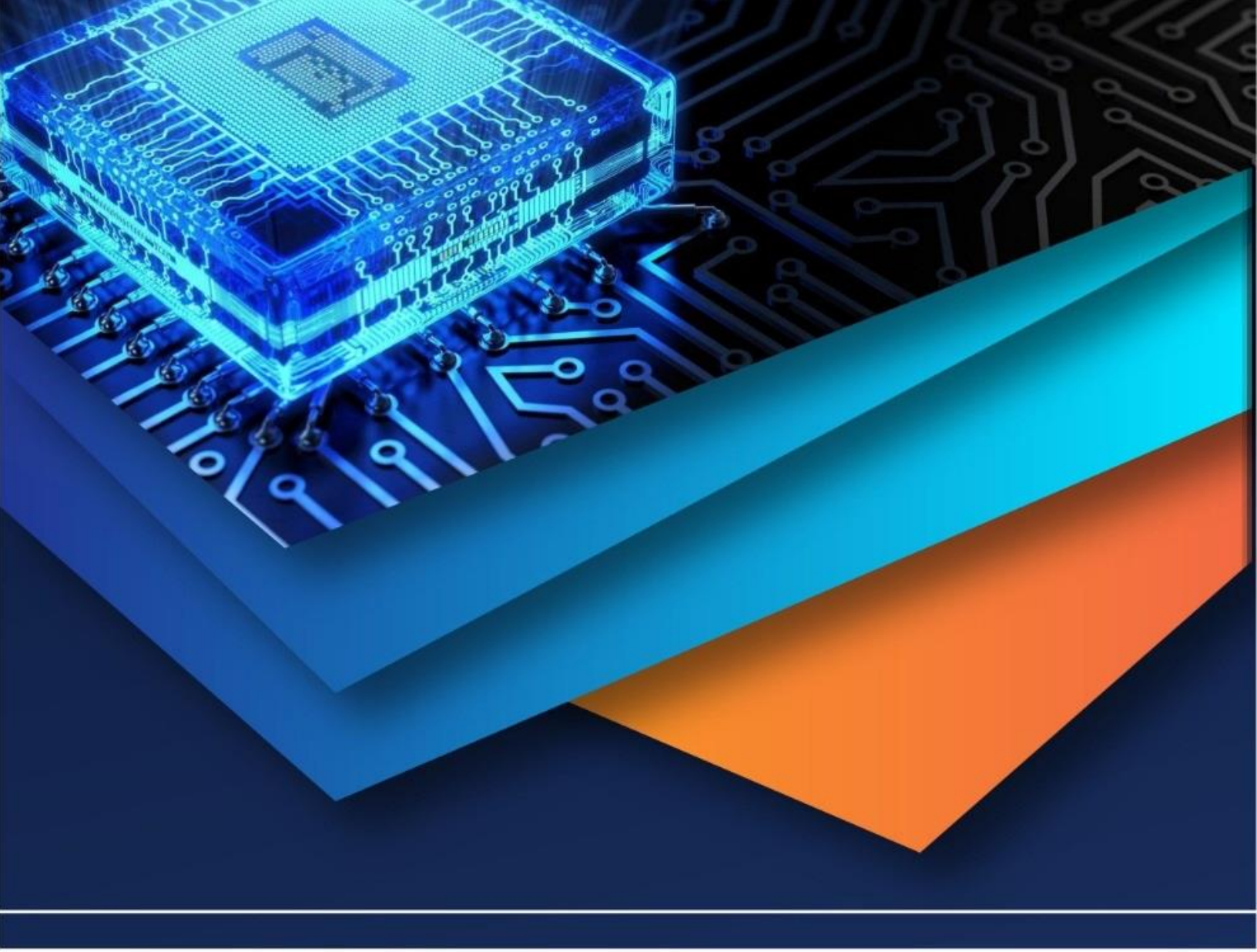
I. INTRODUCTION

Nowdays different companies are asking their employees to come to office
And reduce or stop working from Home. Then Question Arises How a manager will understand Whether an employee will come to office

II. SOLUTION

I have developed a model using sigmoid function of logistics regression to determine whether Probability of coming to office is 0 or 1
we have considered 10 variables which are independent of each other
age=A; experience=E, NTS=native_town_same; HA=has_ailment;;
MYK=is_mother_with_young_kids
SAP=stays_with_ailing _parents
HLH=has_litigation_inhometown;
HHL=has_high_loan
EXPM=experience_level_mid
EXPS=experience_level_senior
RT=role_technical
then p< probability employee will come to office>= 1/{ 1 +e^(-z)}
this is sigmoid function demonstrate logistics regression in ML statistics
assumption- all above 10 independent variable are not related with each other
where z=3.3382-0.1043A+ 0.1111E+0.1583NTS-3.1658HA-1.9852MYK-1.61152SAP-1.3185HLH
+3.5049HHL-0.0300EXPM+ .5758EXPS-1.2013RT;
If above 10 variable is given by hr/manager he can determine whether an employee will come to office; this is statistical modelling using logistics regression

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