Task 3

ML Problem Identification

Marks: 20

Time: 15 minutes

This task is based on your real-world understanding and ability to identify whether a problem can be solved by Machine Learning or not. Identify and fill problems that you feel can be solved with Machine Learning and also mention the difficulty level of solving using Machine Learning, if it can be solved.

List a set of problems that you think AI/ML can solve in these following domains

S.No	Healthcare	Difficulty
1	Disease Dignosis - identifying features from images and data	Medium to High
2	Patient Risk Prediction - Lifestlyle, medical history and family history	Medium
3	Morality Prediction - Morality risk depending on medical conditions	Medium to high
4	Medication Tolerance - How much is too much	Medium
5	Risk of Readmission - How likely patient may have to go back to hospital in a short time span	Medium

S.No	Education	Difficulty
1	Student Dropout prediction	Medium
2	Course Enrollment base on preference and grades	Low
3	Student Grade Prediction	Low to Medium
4	Identifying Learning Disabilities	Medium to High
5	Automated Grading	Low to High

S.No	Banking	Difficulty
1	Credit Scoring	Low
2	Fraud Detection	Medium To Very High
3	Risk Management	Medium to High
4	Loan Default Detection	Low to Medium
5	Investment Projections	Very High

S.No	E-Commerce	Difficulty
1	Sales Forecasting	Low to Medium
2	Product Recommendation	Medium to High
3	Product Return Prediction	Low to High (Dependent on Industy)
4	Inventory Turnover Forecast	Low to Medium
5	Price Elasticity Modeling	Low to Medium

S.No	Your Problems	Difficulty
1	Energy Consumption Forcast	Low
2	Online Shipping Recommendations	Low to Medium
3	Smart Home Automation	Low
4	Traffic Congestion Prediction	Low
5	Spam Email Detection	Low to High