**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 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**

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| **S. No** | **Healthcare** | **Difficulty** |
| 1 | Medicine strips and bottles inventory management (OCR) | Medium |
| 2 | Diagnosis Chatbot | Easy |
| 3 | Analyzing Scanned Data (Heart rate, Sleep cycle etc.) | Easy |
| 4 | Clinical Trial Simulation | Medium |
| 5 | Robot Assisted Surgery | Hard |

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| **S. No** | **Education** | **Difficulty** |
| 1 | Analyzing Student Performance | Easy |
| 2 | Prediction for related topics to learn | Easy |
| 3 | Subjective answers grading | Hard |
| 4 | Digital assistance for doubts (NLP) | Medium |
| 5 | Career Guidance Analysis | Medium |

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| **S. No** | **Banking** | **Difficulty** |
| 1 | Risk Analysis | Medium |
| 2 | Targeted Marketing | Hard |
| 3 | Automated Customer Support | Medium |
| 4 | Anti-Fraud System | Hard |
| 5 | Predicting Market Trends | Medium |

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| **S. No** | **E-Commerce** | **Difficulty** |
| 1 | Product Association and Prediction (Recommendation) | Medium |
| 2 | Product Review Analysis | Medium |
| 3 | Optimizing search results (NLP) | Hard |
| 4 | Price Forecasting | Easy |
| 5 | Customer Demographic Analysis | Medium |

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| **S. No** | **Your Problems** | **Difficulty** |
| 1 | College/University Acceptance Analysis | Easy |
| 2 | Expense/Spend Analysis | Medium |
| 3 | Email Malware Filtering | Medium |
| 4 | Traffic Analysis | Hard |
| 5 | Weather Prediction | Hard |