|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RISK SUMMARY | RISK CATEGORY | PROBABILITY | IMPACT | RMMM |
| 1. Will it be possible to implement efficient algorithms on data in the project? | STRATRGIC RISK  (PROACTIVE) | **25%**  (Time and space complexity will be kept in mind while implementing the algorithms there are many algorithms for the one problem but choosing effective and efficient in terms of memory usage and time consumption is the challenge. ) | **Critical** (If this risk becomes reality then delivery will be affected. ) | **MITIGATION:**  Before starting the coding, proper analysis will be done on algorithms designing based on time, space and other non-functional requirements as well.  **MONITORING:**  After developing every module, it is checked for applying all the principles.  **MANAGEMENT:**  If the risk becomes realistic then the module is redesigned and another plans are tried which will be best based on tradeoffs. |
| 1. Project delivery | PROJECT RISK  (PROACTIVE) | **50%**  (The duration of project that was estimated was 50 days. But, due to the assignments and other tasks it was reduced to 25) | **CRITICAL**  (If this risk occurs then it also affect the quality of work and would result in the occurrences of other possible risks) | **MITIGATION:**  Before starting the project, diagrams like Gantt chart would be drawn to estimate the time each module will take.  **MONITORING:**  Each module would be checked against its assigned time limit.  **MANAGEMENT:**  If the risk becomes obvious then rescheduling will be done in order to make sure that the project is delivered on time. |
| 3) Availability of data set | TECHNICAL  (PROACTIVE) | **Almost zero**  (Our project needs data set for learning and increasing its accuracy. If it is not available then it is not possible to train our system. ) | **Marginal**  (If availability of the data set is zero then we can also make our data set manually also we can take help from experts to make data sets for our project.) | **Mitigation:**  Before starting of the project our team will try to find as many resources from which data set can be collected.  **Monitoring:**  Resources are checked periodically for their availability.  **Management:**  If the risk become problem then we have to train our software manually from group of people or If the delivery time is on head then we will try to pay for data sets from other companies. |
| 4)Integrating Modules | TECHNICAL  (REACTIVE) | **Almost zero**  (As the modules are being made by a single group using same coding concepts, therefore, it is unlikely that there would be any chance of difficulty in integrating the code) | **CRITICAL**  (If the risk occurs then not only it will affect the implementation but also it will increase the probability of occurrences of other risks) | **MITIGATION:**  All the concepts will be discussed at the start so that all the modules would be developed using the same approach  **MONITORING:**  The modules will be implemented after their completion to check whether they are performing identically or not.  **MAINTAINING:**  If this risk occurs and it became hard to integrate the modules then required changes will be made in the testing period or the modules would be presented as separate parts to minimise the loss. |