Chapter 7: Conclusion and Future Work

In this thesis, we discussed learning problems of various students with various types of disabilities. We started with the following objectives:

- To describe datasets with the help of visualizations.
- To group disabled students using ID3 to form study groups to recommend peer(s).
- To study various divides existing in the given datasets which might be limiting the interactions / education for disabled students.
- To suggest an e-Learning software / tool and modify the existing pedagogy methods for special education.

First objective has been achieved in chapters 4 and 5 where visualization (graphs & decision trees) are drawn and statistical distributions have been identified. A new strategy for Data Cleaning has also been explained. Second objective is achieved in chapter 5 where ID3 technique is used to form study groups for peer-to-peer learning. Social Solution of problems can be initiated by forming groups and letting the students decide what works best for them. Peer Recommender System can help initiate distributed project work. Third objective is achieved in chapter 4 where economical, gender, digital, generational divides are found and discussed from the point of view that these divides might have the role of limiting the interaction / education for disabled students in the given data sets. Fourth objective was achieved in chapter 6 where modified pedagogy, a mobile application program- DialAT app and three AEH tools have been suggested. In this way, the above mentioned four objectives are achieved.

How so ever complete a research may be, because of the time limitations, there always remains scope for improvement. In this respect, one direction of extending the work presented in the thesis can be through including other players shown in the following diagram:
Another direction in which work can be extended is through modifying the enrolment form by adding more columns and by creating students profile online.