**Objectives and aims**

Project is about flood forecasting in the mountainous regions specifically focused on Gilgit-Baltistan. We recently witnessed a disastrous flood in overall Pakistan and in many other places around the world. In Gilgit-Baltistan many people lost their lives in the recent flood. Peoples’ houses are completely swiped away and their properties such as lands, trees etc are completely damaged. The aim of this project is reducing such damages by telling people when can flood happen. If we can predict the flood, then we will be prepared accordingly, and the loss can be reduced to a greater extent.

**SMART (Specific, Measurable, Achievable, Relevant, Time-bound)**

The topic chosen for this project is very specific as it is focused on the flood forecasting in Gilgit-Baltistan using Machine Learning and Deep Learning techniques. It is measurable as I know how, when, and what to do. First, I will find dataset and research and then I will apply Machine Learning model. Lastly, I will conclude and write a report. This project is also achievable when followed all the procedures. This topic is very relevant, and it can be used as final year project. Moreover, it can be done in the given time frame.

**Six steps of planning**

1. **Work breakdown**

Flood forecasting using ANN and CNN

Finding dataset

Literature Review

Cleaning dataset

Training and testing data

Applying various algorithms

Finding good results

Writing report

1. **Time estimates**
2. **Milestone identification**
3. **Activity sequencing**
4. **Scheduling**
5. **Re-planning**