**Proposal Topic: Data Based Outlook to Reduce Flood to Property Damage**

**Exploratory Data Analysis: Flood Damage to Property Reduction**

BAT-404 Analytics Techniques and Tools

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**Introduction**

**Problem Statement**

**Significance of the proposed topic**

**Methods**

* Preparedness and response capacity at local communities should equally be promoted through a community-based approach. This includes building community-to-community coordination. For example, if there is heavy rainfall and a flash flood is likely in an upstream community, that community can inform the downstream community and activate an alert system—which should be installed.
* “Green-gray” infrastructure like retention basins, wetlands, vegetation shields, sediment traps, flood walls, diversion channels, retaining walls, and other measures can improve the geo-morphology of the mountain rivers including slope stabilization and overall flash flood risk management.
* Local governments urgently need greater expertise on flood management, both on the technical and non-technical aspects, and in each and every stage of the risk management cycle, which is greatly lacking in the region.

**Expected Output**

**References**

Global Disaster Database

<https://public.emdat.be/data>

<https://ourworldindata.org/natural-disasters>

Flood Control and its Management

<https://www.heraldopenaccess.us/openaccess/flood-control-and-its-management>

<https://blogs.adb.org/blog/how-governments-can-reduce-impacts-of-asia-s-devastating-flash-floods>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3529313/>