**Problem Statement**: Evaluate the ideas and provide insights to improve decision making. Eg: Is it a good or bad idea, Feasible or not, how?

Plan A: Modules to use to build our generative AI on top of their library. Use tensorflow

Plan B: Prompt engineering. Use OpenAI modules and use their engines. Eg: The engine will take care of the metrics of the ideas that are given as input.

**Deliverables**: Why is the idea going to be implemented? How?

* Step1 : Explain the idea in detail. Take into consideration of the parameters – minus, plus, effect, consequences, benefit the organisation
* PCA, Hyperparameter tuning
* Implementation algorithms – Recommendation Engine (Eg: Rate the social media reviews)
* End result: 1 – 5 -> 5 – best (recommended), 1 – worst (needs more research), 3 – average (win win)

**Dataset** – 9am of 6th Jan

Possibility – csv data, doc file

To do:

* Github repository for our hackathon and share with all the team members
* Deploy all available programs that will help our hackathon
* Merge all the discussion points
* Get the description of the scratch idea,
* Kavya – Moonshot, Dolsy and Pratysuh – Idea filter, Ajinkya – Idea Validator, Open AI Prompt Engineering

Kavya –

1. Moonshot finder - done
2. Diff algorithms for recommendation engine
3. Key diff b/w sup, unsup, neural n/w
4. WTF does generative AI mean?
5. Kaggle understanding of using hyperparameter tuning, PCA
6. How to extract something from a paragraph
7. Put a readme file, mom and branches
8. Put all relevant codes in helper folder
9. What is feed forward, CNN and RNN in neural networks?
10. How does encoding and decoding work in NN?

Points:

1. Since this is Generative AI, we probably have to use unsupervised algorithms like Clustering, Dimensionality Reduction and Generative models. We can use Neural networks in Unsupervised algorithms like autoencoders in DIM Reduction and GANs in Generative models.
2. Implementation ideas:
   1. NLP – Sentiment analysis for tone of the idea, entity recognition to identify key entities, topic modelling (LDA & NMF)
   2. K-means or hierarchical clustering (Dim red and Auto encoders)
   3. Rule based systems
   4. Genetic algorithms
   5. Reinforcement learning