Week 2: Ensemble Techniques

(Total video duration is nearly 1 hour 55 mins. You will be required to spend 55 – 65 minutes/day along with practicing datasets and quizzes)

"The basic Psychology of Ensemble approach can be observed routinely in our daily lives, where we ask the opinions of several experts before making a decision. In any case, a final decision is made by combining the individual decisions of several experts. In doing so, the primary goal is to minimize the happening of the unfortunate. Therefore to address the preliminary question of Model Selection which is "what is the most appropriate classifier/prediction algorithm for a given problem?" Ensemble Methods has played a key role in mitigating the risk of unfortunate".

Learning Outcomes from Week-2:

Bagging

Boosting

Random forest

Great Learning

Mentor Session Duration: 2 hours	Faculty Name: Dr. Kumar Muthuraman		No. of videos: 7
S.no	**Video Name**	**Duration of the video(min)**	**Conceptual or Hands On**
1.1	Ensemble Techniques	15.38	Conceptual
1.2	Random Forests	20.34	Conceptual
1.3	Bagging	5.19	Conceptual
1.4	Boosting	4.58	Conceptual
1.5	Boosting - A Visual Example	5.21	Conceptual
1.6	Hands - on - Ensemble Techniques	32.12	Conceptual + Hands On
1.7	Stacking	8.41	Conceptual

Few textbooks that you can refer to:

https://jakevdp.github.io/PythonDataScienceHandbook/

Python Machine Learning by Sebastian Raschka and Vahid Mirjalili

The Elements of Statistical Learning

Approaching Any Machine Learning problem by Abhishek Thakur