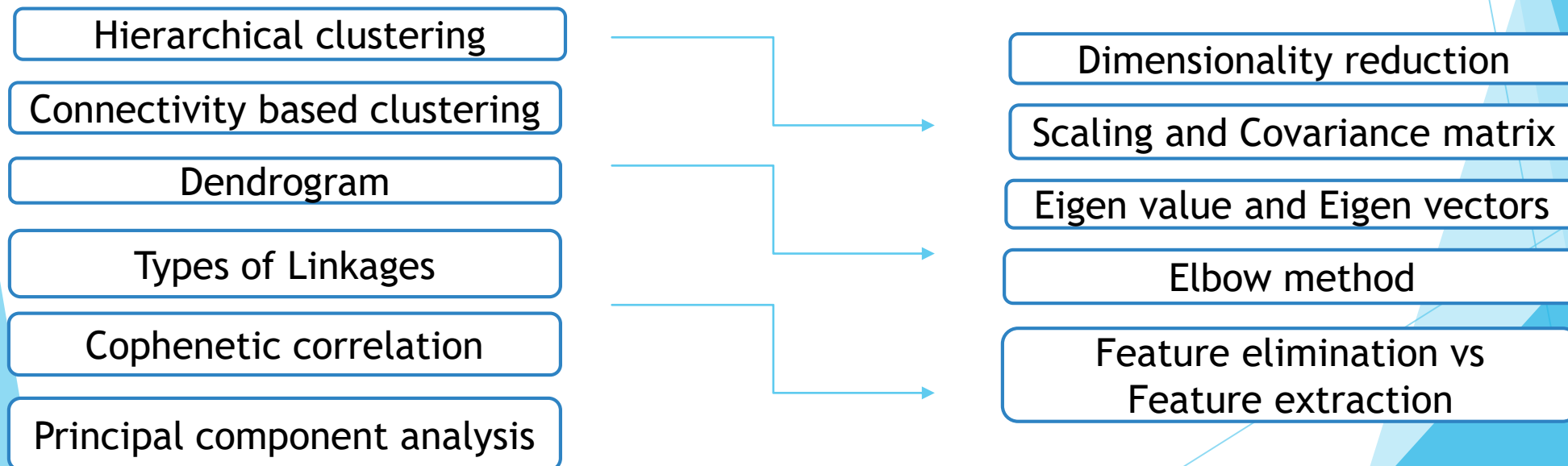


Week 2: Hierarchical Clustering & PCA

(Total video duration is nearly 1 hour 50 mins. You will be required to spend 60 - 75 minutes/day along with practicing datasets and quizzes)

“Unsupervised Learning uses similarities of data points to categories with minimalistic labelling. In this course, we will learn the most commonly used Unsupervised learning methodologies, Clustering and Dimensionality Reduction.”.

Learning Outcomes from Week-1:



Mentor Session Duration:
2 hours

Faculty Name:
Dr. Kumar Muthuraman

No. of videos:
5

S.no	Video Name	Duration of the video(min)	Conceptual or Hands On
1.1	Hierarchical clustering	28.23	Conceptual
1.2	Cophenetic Correlation	5.18	Conceptual
1.3	Hierarchical Clustering Hands On	18.49	Conceptual
1.4	Principal Component Analysis	37.44	Conceptual
1.5	Hands - on PCA	18.52	Conceptual + Hands on

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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

Hands-on Unsupervised Learning using Python by Ankur Patel