# Data Science Application Questions Based on Presentation

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# 1. Describe the role of basic linear algebra techniques which are useful in the study of data science. How machine learning uses Linear Algebra to solve Data Sciences problems?

2. Explain in brief the purpose of the inclusion of Linear Algebra in the Data Science curriculum? Explain how the concepts of matrices, vector spaces, graphs, and Networks are applied to study Data Science problems.

# 3. Explain how the theories of Probability, matrices, and vectors are used to study various Applications in data science Problems. What linear algebra topics are applied in Data Science and Machine Learning Problems?

# 4. State and describe the properties of Linear Algebra that can be applied in Data Science and Machine learning problems**.** Describe how the concepts of the System of Linear Equations are studied in the Data Sciences. State its various applications in Data Sciences.

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# 5. Describe how the various concepts of spectral theories are studied and applied in the Data Sciences. Discuss Linear Algebra techniques for Machine Learning, their Uses, and their works.