

EDS - Activity

Date - 31/01/25

Q Write any 3- application of Data science and explain in detail.

① Marketing :-

Appli - Companies use data science to analyze customer opinions and suggestions from reviews, social media and surveys. Natural It helps to understand customers sentiment towards product and services.

Ex:- Brands like Coca-Cola and Nike analyze social media conversations to collect information and improve marketing strategies.

② Sports Analytics :-

Appli - Data science is used in sports to analyze player performance, optimize training, and make strategic learning to evaluate player statistics, movement patterns, and opponent strategies.

Ex:- In sports like ~~base~~ football, cricket, etc. use data analytics to track player movement to improve strategies.

③ Education (E-learning).

Appli² Data science enhances e-learning platform by analyzing student performance and customizing learning materials based on their progress. AI-driven tutors adapt lessons to individual needs.

Ex: Platform like Coursera and Duolingo use AI to offer personalized learning recommendations.

Q Mention Libraries for python for Mathematical operations, array/List to draw the graph, chart etc.

- ① Libraries for mathematical Operations:-
- NumPy
 - SciPy
 - SymPy
 - math
 - Statistics

- ② Libraries for Graph and Charts.
- Matplotlib
 - Seaborn
 - Plotly
 - Pandas
 - Bokeh

Namo - Toshit Gharat
PRN - 202401120008
Roll no - CS8-74

Div - CS8

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③ Libraries for Array/List manipulation.

- NumPy
- pandas
- Collections