Name: kadam Makesh

ROLLNO: CS8-71

PRN: 202401120074

Q. Write any 3 applications of Data science

-> mention 19 bravies of python for mathematical operat array I nist to draw the graph, chart etc.

Healthcare: Data scrence is revolutionly healthcare by enabling predictive analytics for partient outcomes, personalized management of healthcare resources.

for example, machine learning models can predict disease outbreaks, recommend the atment plans based on partient history, any optimize hospital operations.

2. Finance & In financial sector, data

Schence is used for risk management,

fraud detection, algorithmic tracking

and customer segmentation. By

analyzing large volumes of transaction

data, financial insititutions Can

indicate frauddlent activity, assess

credit tick, and tollor financial products

to individual customer heeds.

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3. E-commerce: Data science digres

recommendation systems, Customer behavior analysis, and inventory management on e-commerce, platforms like Amaton and Northix use data science to recommend or content based on user products or content based on user products or content based on user experience and enhancing customer experience and enhancing sales, Additionally predictive on creasing sales, Additionally predictive analytics helps in managing anventory analytics helps in managing anventory evels and optimizing, supply chains.

These apprenthens demonstrate the versatility and impact of data scrence versatility and industries.

202401120074 Mathematical operations: \* A fundamental library for numerical computations in Python. supports arrays, matrices, and mathematical functions 19ke 19near algebra, fourter transforms, and random number generation. \* Burlt on Numpy, 94 Provides additional functionality for schence computing, and adding optimization, antegration, interpolation, and statistics.

# A 19 brary for symbolic mathematris,

Including algebra, calculus, and

equation solving.

4. Pandas 3

\* where primarily used for data
manapulation at also supports
mathematical operations on data
frames and series.

3, Marth !

\* A bugit +9n python 19 brang for basic mathematican functions 19ke tragonometry, logarithms and constants.