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a Write any 3-application of Data science and Explain in Detail.

Ans. 1) Fraud Detection and Risk Analysis:

Banks and financial institutions use data

science to detect fraud. assess credit

risk and optimise trading statages. Data

science models analyze large volumes of

transactions in reset-time Unusual patterns

in transactions trigger fraud alerts (redit

risk models assess a borrower's financial

history to determine loan approval chances.

Payped uses machine learning algorithms to

detect fraudalent transactions, preventing

financial losses for customers.

2) F- Commerce - Recommendation Systems!

Data science is used to create personalized

shopping experiences by recommending products based on user behaviour. Algorithms

ucts based on user behaviour. Algorithms

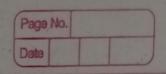
arelyze user activity, including past purcharelyze user activity, including past purcheses, browsing history and reviews.

Machine learning models suggest products

similar to what users have shown interest

5) Cybersecurity - Threat Detection and Prevention:

Outa science helps in cybersecurity by identifying and preventing cyber threats such us maleugae, phishing and hacking attempts. Machine learning models



analyze network activity to detect suspicious behaviour. AI - powered security systems identify unusual login altempts for unauthorized access. Predictive analytics help organisations prevent tuture cyberaltacks.

	Date
0.	Mention libraries of python for mathematical operation, list, to that the graphs chant etc.
Ans	1. Mumpy - Scipy - Sympy - math - statistics.
	<ul> <li>Amays and lists handeling</li> <li>Numpy</li> <li>pandas</li> <li>pandas</li> </ul>
	- array [Bait in modale]
	5 Graphs and charts (Data visedization)  Matplotlib  Sea born  Plotly  Boken  ggplot (Plotnine)
	Some extra liberay Functions are:  Scikit - learn For ml.  Tensorflory and pytorch -> deep  learning.
	- 5 tuts models -> Statistical modelling,

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