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Q. Write any 5 Application of Data Science & explain in Detail.

→ ① Healthcare & medical Diagnosis

Applications in Healthcare :-

- Diseases prediction & early Detection

AI models analyze patient history, genetics, and lifestyle to predict diseases like Cancers, diabetes and heart diseases.

② Fraud Detection in Banking & Finance

- Fraud Detection - AI monitors

banking transactions and flags unusual patterns, reducing frauds and activities like credit card.

③ E-Commerce & Retail Analytics

- Inventory management predictive analytics helps ~~met~~ retailer manage stock levels, reducing overstocking and shortages.

④ Medical imaging Analysis : AI powered image recognition helps doctors detect abnormalities in X-Rays, MRI's and CT Scans with high accuracy.

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② Mention Libraries of python for mathematical operator, array list is draw the graph, chart, etc.

→ ① Mathematical operations:

- Numpy
- Scipy
- SymPy
- Math
- Statistics

② Arrays and List Handling

- Numpy
- Pandas
- array (Built-in-module)

③ Graphs and charts (Data Visualization)

- Matplotlib
- Seaborn
- Plotly
- Bokch
- ggplot (Plotnine)

Some extra Library Functions are:-

- Scikit → Learn for ML
- Tensorflow & Pytorch → deep Learning
- Stats models → statistical modelling.