Q. Write any 3-application of Data Science & Explain in Detail

① Healthcare : Disease Prediction & Diagnosis.

- Application - Using machine learning algorithms, healthcare providers can analyze patient records, genetic data, & lifestyle information to predict the likelihood of diseases such as diabetes, cancer or heart conditions.

② E-commerce : Recommendation Systems

- Application - Platforms like Amazon, Netflix, and Spotify use reccommendation systems to enhance user experiences by suggesting products, movies, or music tailored to individual preferences.

③ Finance : Fraud Detection & Risk Management

- Application - Banks & financial institution use data science to identify unusual transaction patterns and assess credit risk.

Q. mention libraries of python for Mathematical operation, array / list to draw the graph , chart , etc.

① **Libraries for Mathematical Operations.**

       i) NumPy

      ii) SciPy

      iii) SymPy

② **Libraries For Arrays & lists.**

      i) Pandas

      ii) NumPy

      iii) Xarray

③ **Libraries For Graphs & Charts.**

      i) Matplotlib.

      ii) Seaborn

      iii) Plotly

      iv) Bokeh

      v) Altair.