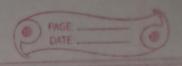
Daril Alssignment - OL O PAGE ____ ENI- 2005/010/159 Batch - C. M. you worked make Subject - Dota Science (8-1.) What is Data Science and Explain with 5 applications of Dato Science ? Data Science applications also enable and advance level of treatment personalization through research in genetics and genemics. Applications of Dato Science -Lit In Search Engine The most useful application of data Science in search engines. As we know when we want to Rearch for something

(ii) In Transport! Date Science also intered into the transport vechiles like Drox Driverley Cars. O. Antons Siii) In finnance: Data Science plays a key stale in finacial industries. Financial industries. Financial industries always have an issue of houd and risk. (iv) In Ecommerce: E-commerce websites like to make a better user enperience with personalized recommendations. (v.) In Health Care C. As 2000 of 190A In the Healthcore Industry data Science act as a bone. Data Science is used por

* Detecting Tumor

* Drug Discoverise * Medical Image Analysis.



8-27 Explain in Detail about minumpy Library with 2 enamples?

Numpy is a python-library used for working with arrays.

It also has functions for working a in domain of linear algebra, iron formation than and matrices En:- In python we have lists that Serve the purpose of arrays but they are slow to process Numpy aim to provide an larray object that it up to son faster than traditional python lists. List any 3 Data Science Python Libraries and explain them in detail? (8.3.) And Python is most widely in used programme ing language today. When it comes to dota science tasks and challenges, 8-4) Write down in detail about ndim, Shape, Size and item size? Ans Number of dimensions of the Numpy mesoarray - ndim, or 1014. & Shape of the Numpy array - Shape * Size of the Numpy array - Size * Size of the fist dimension of Numpy array ! (ent)

Ans tist out Scipy Subpackage?

Ans Chart Clustering Package (Scipy. cluster) Le Constant (Scipy, Constant) * Legacy discrete fourier tronsforms (# (Scipy. 18+4) * Integration and ODES (Scipy. integrate) * Interpolation (Scipy. Interpolate) * Input and Output (Scipy 20) purpos minis constantes sont direvening as 6) Write about the Scipy de dinear algebra

Any The Supy pourage included the features of the monumpy pourage in python. It uses numpy arrays as the fundamental I don't Structure.

It has all the heatures included in
the linear algebra of the



Numpy module and some entended functionality.

Syntan - Scipy, linalg, solve (a, b, sym. pars, lower, overwrite-a, overwrite-b, debug, cheve infinite, assume-a, infonsported)

Mhy did mathematics uses for date Any Colognation main maintage of

days of the property of the 18 dames

Data Science regulres mathematoial study be ceuse machine learning algorithm, and purpos ming analysis, and discovering insight from data requires math. ordered which mathemical concepts land implements in data science and machine dearing. Machine Learning is powered by four eritical Concepts.