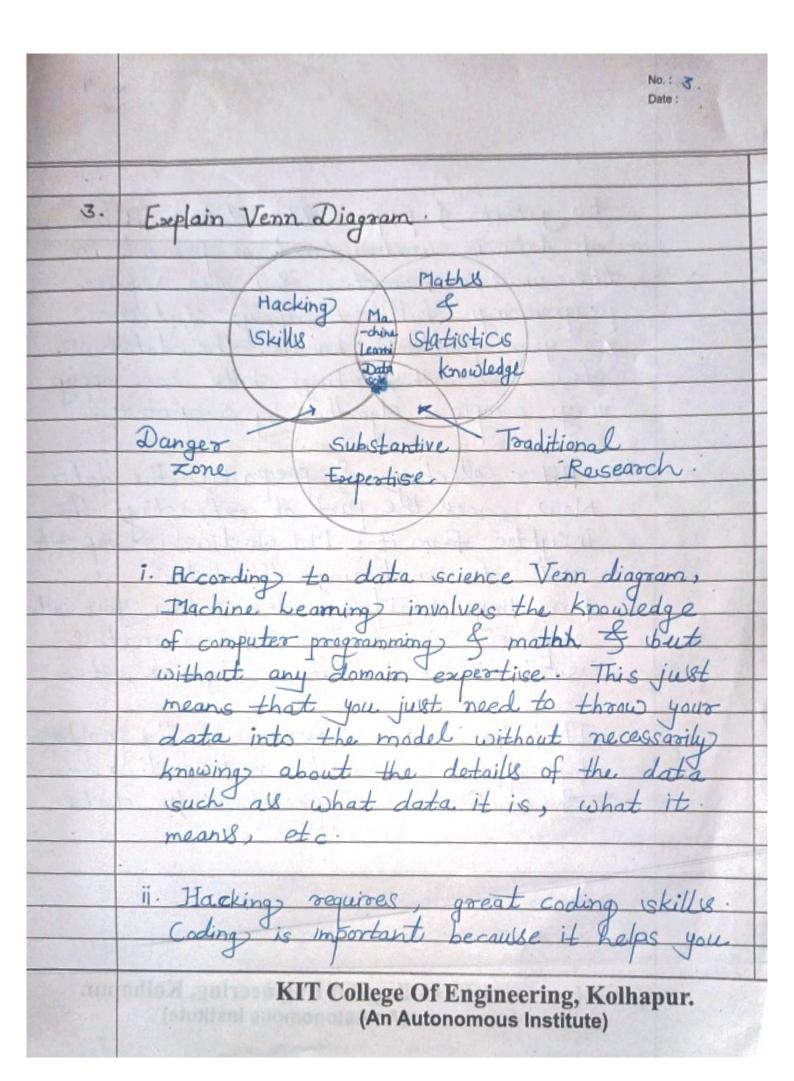
| | Anya Nilesh Kumbhar |
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| | Rall no A47 TY [CSE] No.: 1. Date: |
| | PRN - 2122000375 CourseName - Data Science for Everyone. |
| | CourseName - Data Science for Everyone. |
| | |
| | Assignment: 1 - |
| 1. | What is Data Science ? |
| | |
| | Data science is the study of data to |
| N. C. | i. Data science is the study of data to extract meaningful insights for business. |
| 255 | ii. It is a multidisciplinary approach that combines principles & practice from the fields of mathematics, statistics, artificial intelligence and computer engineering to and |
| | combines principles & practice from the fields |
| | of mathematics, statistics, artificial intelligence |
| | and computer engineering to analyze large |
| Be abo | amounts of data. |
| | |
| | 8 analysis helps data scientists to ask |
| | Tanswer questions like what happent med |
| | can be done with the results. |
| | can be done with the resultis. |
| | |
| | iv. Data science practitionens apply machine |
| | leganing, alamithmento to |
| | il a mages |
| | Video, audio & more to produce artificial |
| | system to Pertom tucks |
| | that ordinarily require human intelligence. |
| | of the minan intelligence. |
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| | (an Automotious institute) |

| L. | No.: 9 . |
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| | Date: |
| | |
| 2. | Explain the importance of data science. |
| | i. Data science is important because it combines tools, methods of technology to generate meaning from data. |
| AR . | ii. Modern Organizations are in undated with data; there is a proliferation of devices that can automatically collect & store information. |
| | iii. Online systems of payment portals capture more data in the fields of e-commerce. medicine finance of every other aspect of human life. |
| | iv. Ile have text, axdio, video, image data available in vast quantities. |
| | • Unlocking trusights • Efficient data handling • Predictive Power & |
| -1816 | KIT College Of Engineering, Kolhapur. (An Autonomous Institute) |



No.: 4.

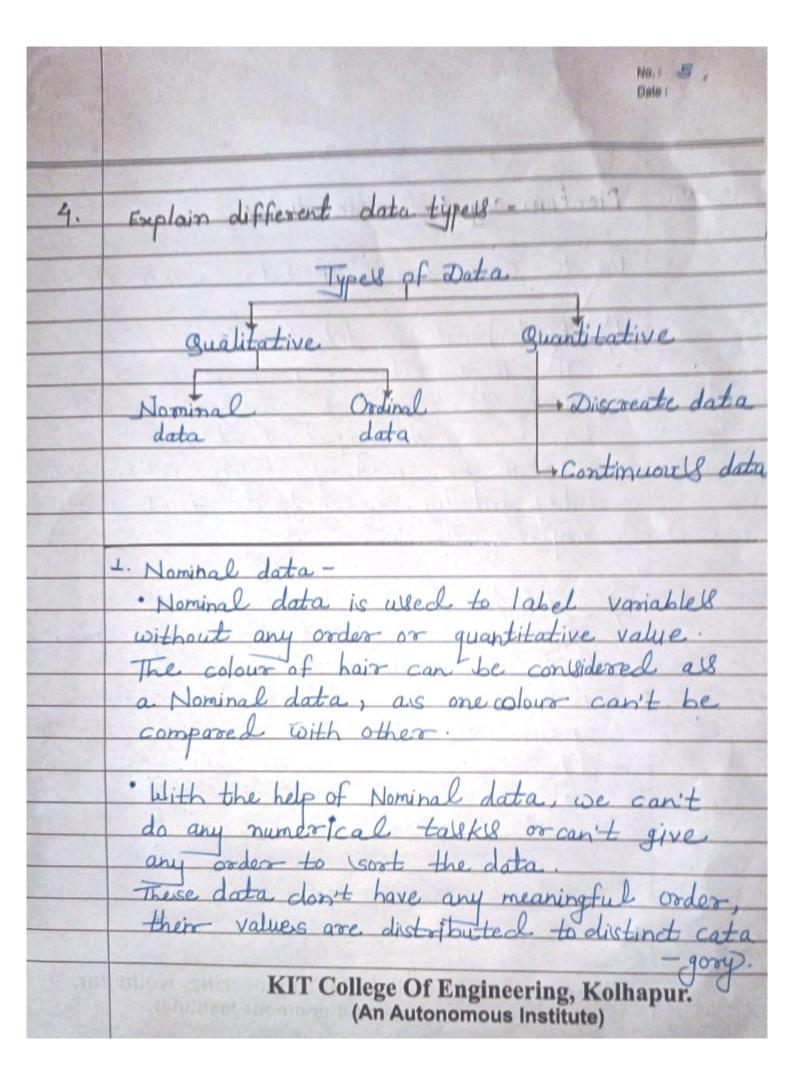
to gather of prepare the data. A lot of data is unstructured or present in the unusal formatis. You also require programming skills to apply statistics to your problem's, handle the database, etc. One with hacking, skills can apply very complex algorithm by computer.

ineightis from it. Mathematics is import ant for analyzing the data:

For Any Analyzing the data: you will require Several tools from mathle such as probability, algebra, etc.

It helps in the diagonosis of the problem by applying, variously mathematical statistical approaches to data.

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No.: 6. Date:

2. Ordinal Data -· Ordinal data have natural ordering where a number is present in some kind of order by their position on the scale There data are used for observation, but we can't do any arithmetical touskel on them. · The Ordinal data is qualitative data For which the values have some kind of relative position These kind of data can be considered as "in-between" the qualitative data & the quantitative data . The Ordinal data only shows the sequences cannot use for statistical analysis. 3. Discoepte Data · The term discrepte means distinct separate. The discrete data contain the values that fall under integers or whole numbers . The total number of student in a class is an example of discreate data. KIT College Of Engineering, Kolhapur. (An Autonomous Institute)

No.: 7. · There data can't be broken into decimal or fraction valued. . The discreate data are countable of have finite values . . There datas are presented mainly by a box graph, number line or frequency E.g. - Coust of a cell phone. 4. Continuoul Data-· Continuous data are in the form of fraction, or fractional numbers. They represents information on that can be divided into · They can vary in any rangel. The key difference between discrete & continuous data is that discorte dota contains whole number · They stored boactional numbers record different data & all temperature, height, width, time, speed, etc. · E.g. - bleight of Person KIT College Of Engineering, Kolhapur. (An Autonomous Institute)

| | No.: &. Date: |
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| | |
| 5. | Mention any two case studies |
| | The two case studies of data science are- |
| | 1) Text Emotional detection: |
| | - This is a natural language processing? |
| | Problem that aims to generate emplis |
| | horsed on the input text. |
| | - It can be used to train artificial |
| | integ intelligence chatbotis that can |
| | express emotions. |
| | |
| | 2) Hotel Recommendation System: |
| | - This is a collaborative titleding pooler |
| | that aims to predict which hotel a |
| | user is most likely to choose from |
| | amongs all hotels. |
| | - It can be done using customer rating |
| | & reviews. |
| | |
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