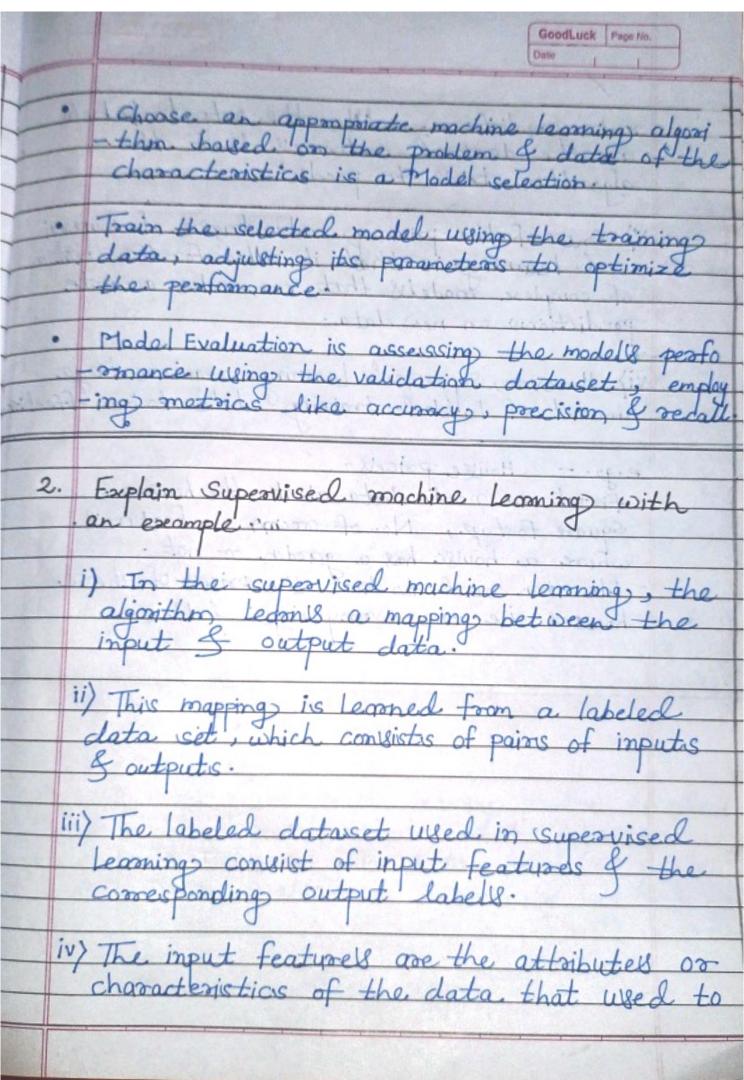
| Define Machine Learning: & describe the key steps in the machine learning: Process. Machine Learning: Mach | | | | | | |
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| Define Machine Learning of describe the key steps in the machine learning process. Plachine Learning: Machine Learning: Mach | | | | | | |
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| Plachine Learning is a branch of metificial intelligence [RI] & computer science which focuses on the use of data & algorithms to imitate the way that human learn, gradually with improving its accuracy. Just like human learns, means that a | | | | | | |
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| 1 landa landa landa | | | | | | |
| machine can be considered to learn; if | | | | | | |
| it is able to gather experience by doing a | | | | | | |
| contain talk 4 improve it's performance | | | | | | |
| in doing the similar task in the future. | | | | | | |
| The transfer of the partition of the transfer | | | | | | |
| The basic Machine learning process can be | | | | | | |
| 1: 10 into those Partis- | | | | | | |
| divided in Data input | | | | | | |
| ii. Abatagation | | | | | | |
| The All House of the Hall of t | | | | | | |
| iii. Generalization. | | | | | | |
| Analys. | | | | | | |
| · Select or courte manipular fortunal Fortunal Front | | | | | | |
| Garagelization | | | | | | |
| Input (Abstraction) Generalization | | | | | | |
| 7 40 | | | | | | |
| and the second second second | | | | | | |
| Lesing to the control of the control | | | | | | |
| train & evaluate A hard for whater | | | | | | |
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| | · Dela · 1 · 1 |
|--------------|--|
| | N line learning process - |
| | The key steps in Machine learning process- |
| - Class | 1. Problem defination |
| | |
| | 3. Data Processing |
| | 4. Feature Engineering |
| Heink | 5. Data splitting 6. Model selection |
| - di | 7. Model training |
| | e. Model Evaluation. |
| | The second secon |
| ENGLY TO THE | P 11 J.C. Line is to clonate autime |
| | - I be some to solve willing and |
| 4 | - ning, such as classification, regression or |
| | clustering? |
| • | Gathering relevant data that will be used to |
| | train & test the machine dearning model is |
| | Data Collection and Jane |
| | To 1- the action in involvers demine trapleform |
| | & me-missing there data to handle missing |
| | Data processing involvers cleaning, transform & pre-process the data to handle missing values, outliers & ensure it's in suitable format. |
| | |
| | the raw data to help the model learn the |
| Park I | Select or create meaningful features from the raw data to help the model learn the pattern effectively is known as Feature Engineering |
| | Data splittings is dividings the data set into training. Validation of testings subsets to train of evaluate the model performance. |
| | train of evaluate the model performance. |
| | |



| | Date |
|--------|--|
| | |
| | 1:10 the output labels |
| Somely | make predictions, while the output labels |
| Siller | The Ancies of City Court of the |
| | algorithm tries to predict. |
| | who all a huntages of supervi |
| ONG | v) one of the primary advantages of supervi |
| -55 | -sed learning is that it allows for the creation |
| | of complex models that can make accurate |
| 2 | predictions on new data. |
| lama! | vi) Howaver, Supervised Lagraning, requirec targe |
| lakeri | vi) However, supervised learning requires large amount of labled training data to be effective |
| | P, T |
| | e.g House Pricels- |
| | - first we need data about the houses. |
| | Square footage, No. of rooms; features. |
| | where a house has a garden or not. |
| 083 | - We then need to know the prices of theise |
| -sad | houses i.e. the corresponing lableis. |
| | which of options |
| | |
| -1 | ii) The mappings is a garried from a label |
| - | or to ening to exhibition distributed from the |
| | |

| | Dete |
|--|--|
| 1 | |
| 3. | Explain unsupervised machine learning with ex |
| The second secon | |
| • | manpenvised Plachine Lemina - |
| - | tion that is neither a machine using informa |
| | tion that is neither classified nor latted & |
| - | allowings the algorithm to act on that inform |
| 111111111111111111111111111111111111111 | The state of the s |
| + 1 | The Colonia Co |
| | The task of the machine, is to some |
| | THOUSE COLUMN COMMING TO COLUMN TO THE TENT OF THE TEN |
| | Differences without any prior training of |
| | data: |
| | TIMI Purposition of Lampin in Land 1 |
| | Unsupervised learnings is classified into two |
| | A. Chustering - |
| | A clustering mullow is al |
| | to discover the inherent groupings in the |
| 11 | data, such all grouping customers by purch |
| - 0 | to discover the inherent groupings in the data, such as grouping customers by purch |
| | · i 2 |
| | B. Association - |
| | An association rule learning problem is where |
| | |
| | that buys x also those tool to be I people |
| | that buy x also thear tend to by buy you |
| E | xample - |
| | Find a face in an image. |
| | |
| | |

| | | Date Page No. | |
|------------------------|--|--|--|
| 4. | List different types of machine learning, & briefly compre survised learning Vs. unsuper vised | | |
| Parame -ters | | Unsupervised Machine Learning | |
| 1. Input data | Trained | Against data that is not labeled. | |
| 2. Computa | simples | Computationally complese. | |
| 3. Accuracu | -2 m 10 | Less accurate. | |
| 4. No. | Known no. of | E A PLACE CONTRACTOR OF THE STATE OF THE STA | |
| 5. Data Analysis | Uses offline | Uses real-time | |
| 6. Igosithm Used | Linear & Logistics regression, Random Forest | K-Means clustering | |
| | Neural network. | | |

| | | | GoodLuck Page No. Date | | |
|---|---|--|-------------------------------------|--|--|
| | 7. Training | Use training data | 77- 1 | | |
| 7 | | to infer Imodel. | No training data | | |
| 1 | 8. | It is not possible. | It is possible to learn the larger | | |
| | model | | & more complese models with unsuper | | |
| 2 | | Learning. | -vised learnings. | | |
| 1 | 9. Example | The second secon | Finding a face in image Process | | |
| | | | J-ing J | | |
| | | There are different | type & of Plachine | | |
| | There are different types of Machine Learnings - usuch as i | | | | |
| | | i. Supervised ii. Unsupervised | | | |
| | | iii. Semi-Supervised iv. Reinforcemen | Q. | | |
| | iii. | (Somi-Supervised type of 1 | Il algorithm are liels | | |
| | | betn. supervised of unsupervised PIL. | | | |
| | | Reinforcement works on a feedback-based process, in which an AI agent auth automati | | | |
| 7 | - | cally explore, It's surrounging by neutring from experie | | | |
| 1 | - nce & improving its performance. | | | | |