

Gemini-3 LLMs By Waeil

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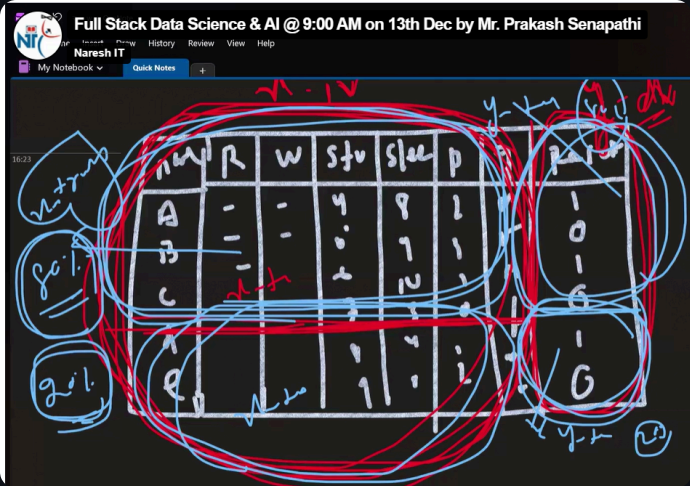
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This image shows a digital whiteboard from a lecture titled "Full Stack Data Science & AI" taught by Mr. Prakash Senapathi at Naresh IT.

The core concept being illustrated is the **80/20 Train-Test Split** of a dataset, a fundamental step in building and evaluating machine learning models.

Data Breakdown

The instructor has drawn a table representing a dataset with several features (independent variables) and one target variable (dependent variable).

- **Features (X):** Represented by columns like 'nam' (name/ID), 'R', 'W', 'stu' (likely Study Hours), 'slee' (likely Sleep Hours), and 'p'.
- **Target (y):** The final column, likely representing 'Pass' (1) or 'Fail' (0).

Transcribed Table Data:

| nam | R | W | stu | slee | p | Pass/y |
|-----|---|---|-----|------|---|--------|
| A | - | - | 4 | 8 | 2 | 1 |
| B | - | - | 5 | 7 | 3 | 0 |
| C | - | - | 6 | 10 | 1 | 1 |
| D | - | - | 2 | 3 | 0 | 0 |
| E | - | - | 4 | 4 | 1 | 1 |
| F | - | - | 1 | 1 | 2 | 0 |

Machine Learning Concepts Illustrated

The annotations (red and blue circles and labels) explain how this data is split for modeling:

1. The Train-Test Split:

- **80% Training Set:** The first four rows (A, B, C, D) are grouped together. This data is used to "teach" the model.
- **20% Testing Set:** The last two rows (E, F) are grouped together. This data is "unseen" by the model during training and is used to evaluate its accuracy later.

2. Notation Used:

- X_{train} : The features for rows A-D (blue box on the left top).
- y_{train} : The target values (1, 0, 1, 0) for rows A-D (blue box on the right top).
- X_{test} : The features for rows E-F (blue box on the left bottom).

- y_{test} : The target values (1, 0) for rows E-F (blue box on the right bottom).

In summary, the instructor is demonstrating how to partition a dataset so that a machine learning model can be trained on one portion (X_{train}, y_{train}) and then validated against a separate, held-out portion (X_{test}, y_{test}).