What is lightGBM Model

* A type of machine learning model that is very good at making predictions based on structured data, like the kind you would find in a spreadsheet or database.

What makes this model unique?

🡪 **Speed**: LightGBM is incredibly fast to train, even on large dataset, hence, where the "Light" in its name comes from.

**🡪Accuracy**: It's known for being very accurate and often outperforms other models on complex datasets.

🡪**Handles Tabular Data**: It's specifically designed to work well with data organised in rows and columns, such as in the MIG concrete analysis data.

So, this model would prove to be beneficial for our analysis!

**How does this do so – what is the process?**

* **Model Building and Training:** The code will first split the data into training and testing sets, then use the training data to teach the model to make predictions.