**What is Machine Learning:**

**Machine Learning is a field of artificial intelligence that enables computers to learn patterns from data (which is often represented numerically) and make predictions or decisions without being explicitly programmed for every possible scenario.**

**Breaking Down Your Definition:**

1. ✅ "Convert anything into numbers" – Yes! ML models work with numerical data. Even images, text, and sounds are converted into numerical representations (like pixel values, word embeddings, or frequency spectrums).
2. ✅ "Find some pattern" – Exactly! ML algorithms look for relationships, trends, and structures in data.
3. ✅ "Define some rule" – Sort of. Instead of explicitly defining rules, ML learns rules from the data. Traditional programming uses hand-coded rules, but ML generalizes from examples.