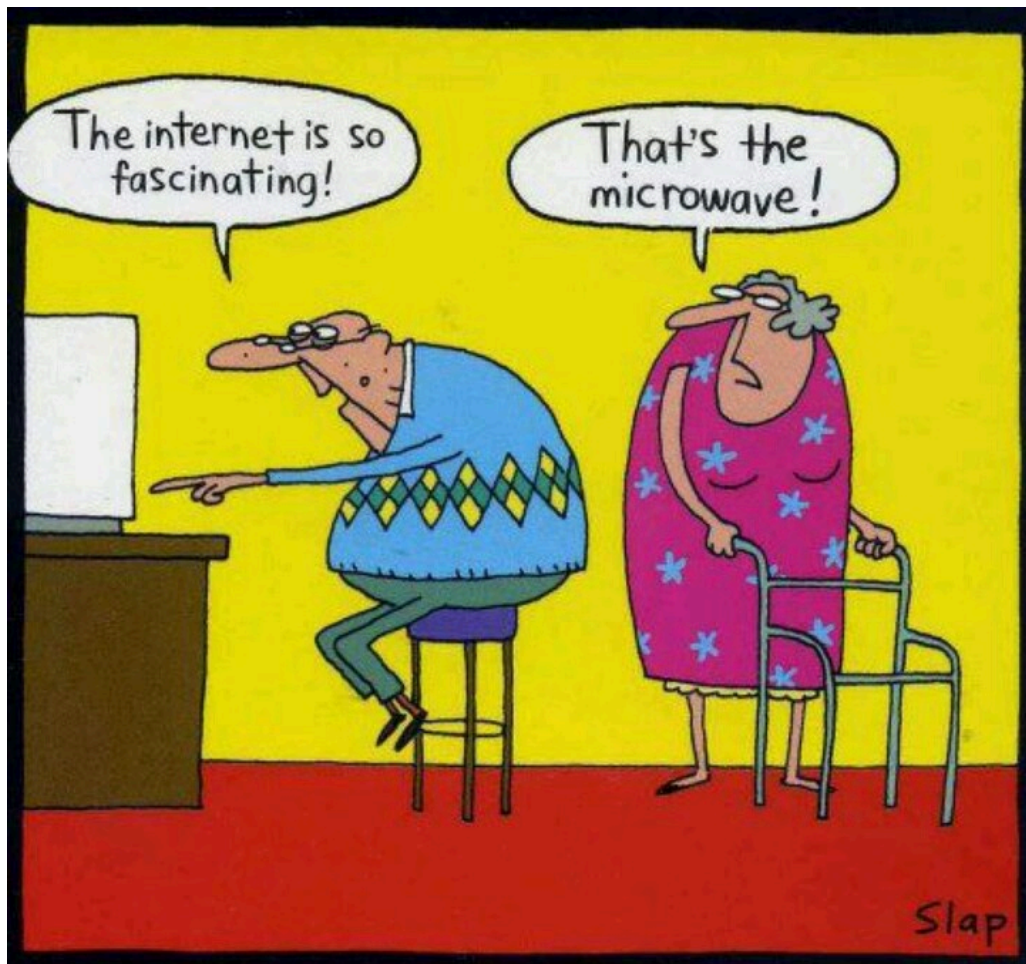


# Artificial Intelligence

Going back to from Unknown to 1930





## Should we worried?

Tom was the first guy losing his job because of Artificial intelligence





The diagram consists of three concentric circles. The outermost circle is labeled 'Artificial Intelligence'. Inside it is a circle labeled 'Machine Learning'. Inside that is the innermost circle labeled 'Deep Learning'. This visualizes that Deep Learning is a subset of Machine Learning, which is a subset of Artificial Intelligence.

## Artificial Intelligence

The theory and development of computer systems able to perform tasks normally requiring human intelligence

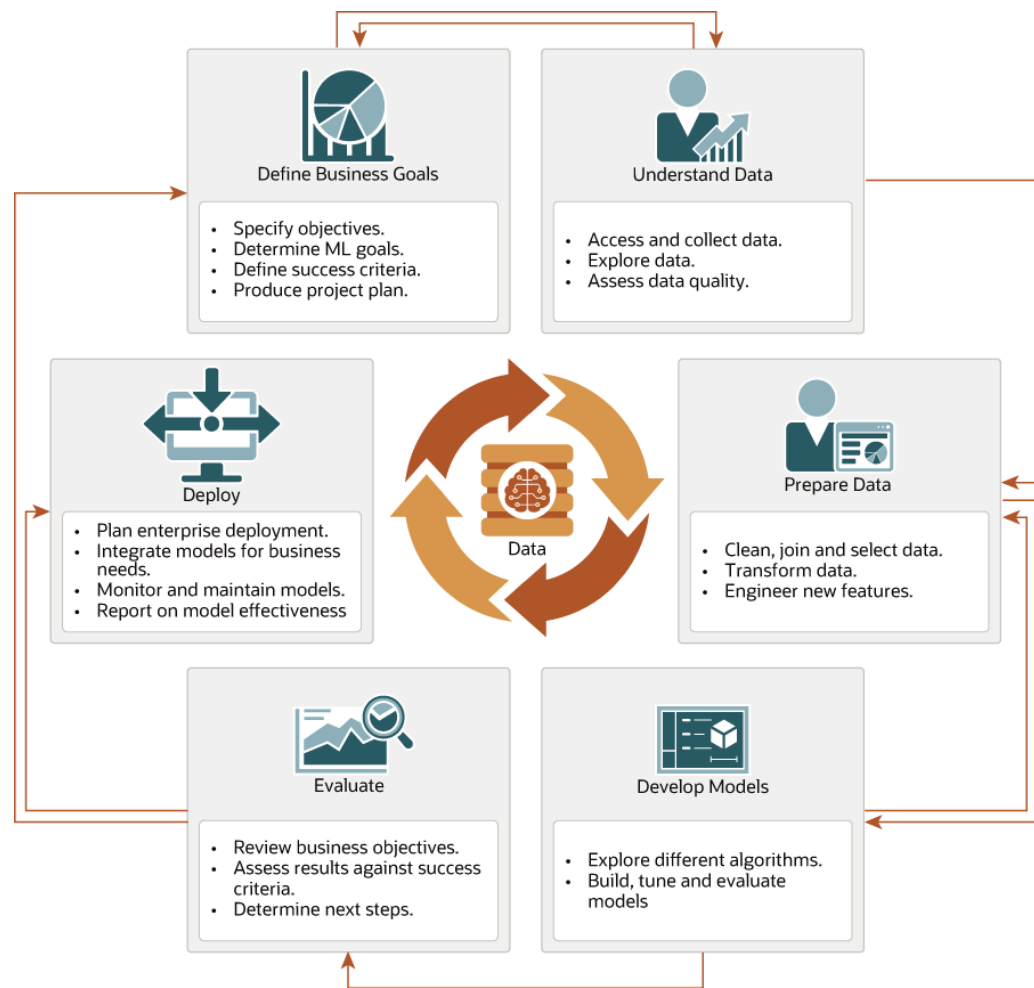
## Machine Learning

Gives computers "the ability to learn without being explicitly programmed"

## Deep Learning

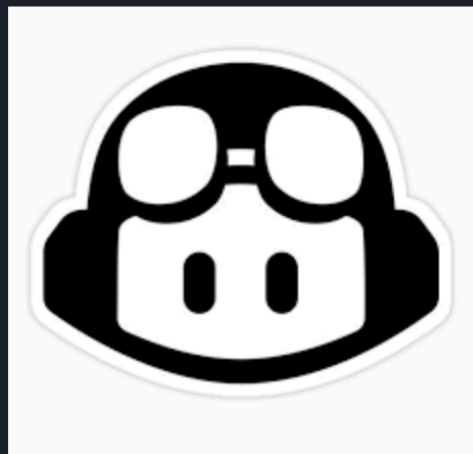
Machine learning algorithms with brain-like logical structure of algorithms called artificial neural networks

**LEVITY**



# Large Language Model

AI That Understands Human Language that Trained on Very Large Data







<https://huggingface.co/>

# Simple Code Example

```
url = 'https://docs.google.com/spreadsheets/d/1Q0vf3ZXFFKXTQXinkE58YnvC4njhvsK3fnBwrHRW5N8/export?format=csv'

ds = load_dataset('csv', data_files=url)
ds = ds["train"].train_test_split(test_size=0.2)
ds

model_name = "distilbert-base-uncased"
model = AutoModelForSequenceClassification.from_pretrained(model_name)
tokenizer = AutoTokenizer.from_pretrained(model_name)
```

# Simple Code Example

```
def tokenize(examples):  
    outputs = tokenizer(examples['text'], truncation=True, padding=True)  
    return outputs  
  
tokenized_ds = ds.map(tokenize, batched=True)
```

# Simple Code Example

```
path = F"/content/gdrive/My Drive/distilbert-dana-review"
training_args = TrainingArguments(num_train_epochs=1,
                                  output_dir=path,
                                  push_to_hub=False,
                                  per_device_train_batch_size=32,
                                  per_device_eval_batch_size=32,
                                  evaluation_strategy="epoch")

data_collator = DataCollatorWithPadding(tokenizer)

trainer = Trainer(model=model, tokenizer=tokenizer,
                  data_collator=data_collator,
                  args=training_args,
                  train_dataset=tokenized_ds["train"],
                  eval_dataset=tokenized_ds["test"],
                  compute_metrics=compute_metrics)

trainer.train()

trainer.save_model()
```

# Simple Code Example

```
from transformers import pipeline, Conversation
import torch

chatbot = pipeline(
    "conversational",
    model="facebook/blenderbot-400M-distill",
    tokenizer="facebook/blenderbot-400M-distill",
    device=pipe_device)

def handle_message(msg):
    conversation = Conversation(msg)

    # Generate a response using the Hugging Face model
    response = chatbot(conversation)
    reply = response.generated_responses[-1]

    return reply
```