**Why Surround in Python?**

 Python does not need to be compiled into machine language instruction before execution and can be used by the developer directly to run the program, Python offers the least code among others and is in fact 1/5 the number compared to other OOP languages. No wonder it is one of the most popular in the market today.

Python has Prebuilt Libraries like Numpy for scientific computation, Scipy for advanced computing and Pybrain for machine learning (Python Machine Learning) making it one of the best languages For AI.

Python is platform Independent and is hence one of the most flexible and popular choices for use across different platforms and technologies with the least tweaks in basic coding.

Python is the most flexible of all others with options to choose between OOPs approach and scripting. You can also use IDE itself to check for most codes and is a boon for developers struggling with different algorithms.

**Why surround Use AI?**

Artificial intelligence (AI) makes it possible for machines to learn from experience, adjust to new inputs and perform human-like tasks.

AI automates repetitive learning and discovery through data

AI adds intelligence to existing products

AI analyses more and deeper data using neural networks that have many hidden layers

**AI adapts through progressive learning algorithms** to let the data do the programming

AI achieves incredible accuracy through deep neural networks

AI gets the most out of data.

**What are machine learning pipelines?**

Machine Learning pipelines are used to carry the code from developers to the data scientists and make the code ready before initialising the code to the data scientists with the help of machine learning.

**Why this Surround AI Model?**

Existing model serving solutions focus on serving the model rather than serving an end-to-end solution. Our machine learning projects require multiple models and glue code to tie these models together.

**What are stages in Surround AI?**

There are three stages in surround AI Framework. Which are used to transform the data from one to another after transforming into more meaningful information.

**When to use Surround?**

You want a flexible way to serve a pipeline in Python without writing C/C++ code.

You have multiple models (custom or pre-trained) from different frameworks that need to be combined into a single Surround solution.

You want to use existing intelligent APIs (AWS Rekognition, Google Cloud AI, Cognitive Services) as part of your Surround implementation.

You have pre or post processing steps that aren't part of your models but need to be deployed as part of your Surround implementation.

You need to package up your dependencies for running Surround as an offline solution on another machine.

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