AI Assignment 1

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Task 1:

Examples for ai applications without data:

Developing games using ai doesn’t need data .

Task 2:

Best programming language for ai:

1-python:easiest language for ai (lesser salary compared to c++)

2-lisp: one of the oldest languages in circulation for AI development.

In the present day, the language is just as capable, but because of its difficult syntax and complicated libraries, it’s rare that developers flock to Lisp first.

3-java

4-c++: in practice, C++’s capacity for low-level programming makes it perfect for handling AI models in production.(more complex but higher salaries)

Nowadays most companies work with python(major)or c++.

Task 3:

Compiled(c,c++,java) vs interpreted(python) languages:

S.NO.	Compiled Language	Interpreted Language
1	Compiled language follows at least two levels to get from source code to execution.	Interpreted language follows one step to get from source code to execution.
2	A compiled language is converted into machine code so that the processor can execute it.	An interpreted language is a language in which the implementations execute instructions directly without earlier compiling a program into machine language.
4	The compiled programs run faster than interpreted programs.	The interpreted programs run slower than the compiled program.
5	In a compiled language, the code can be executed by the CPU.	In Interpreted languages, the program cannot be compiled, it is interpreted.
6	This language delivers better performance.	This language delivers slower performance.

Task 4:

Open source(python) vs not open source(java,c,c++) languages:

open source programming languages means that any one can develop or make updates and new features in the language and has many developers.

Closed source programming languages It simply means that you can’t freely read and modify its source code. Sometimes, it also means that you must share back your contributions under those same terms if you ever improve on it.

Task 5:

General purpose(python,java,c) vs specific purpose(swift) languages:

General-purpose programming languages are designed to write software that will be used to solve a wide range of problems. They have several application domains. They are known as general-purpose because they are designed not to solve any specific problem. Instead, they cover a wide range of problems.

A domain-specific programming language or special-purpose is the one that is specially designed for a particular application domain. It can only be used to solve a particular problem. You cannot use such a language to solve a problem that does not fall within its domain.

Task 6:

Languages that doesn’t support oop :

Fortan, Algol, Cobol, Basic, Pascal, C, Ada, and etc.

Task 7:

Is R a programming language? :

R is a programming language and a software environment for statistical computing and graphics. Microsoft R Open is a version of R that was created by the Microsoft Corporation. Both R and Microsoft R Open are free and open-source tools for data science and analytics.

Task 7:

Companies working in ai in Egypt:

1. **SkillDNA**:

   SkillDNA Helps you to find out all related skills needed for a certain job.

2. **Agora for Educational Development**

   Agora is mobile application that connects education to the real world

3. **WellHiring**

   AI software company aims to raise the hiring quality and saving time & cost

4. **Partum Electronics**

   manufacture voice controlled smart home devices.

5. **Webville_**

   Artville is an AI studio that automates photo-editing