



Python Fundamentals

Introductions

Janani Ravi – co-founder of Loonycorn

20+ years in software development – worked at Google, Microsoft, Flipkart

Undergrad in Mumbai, grad school at Stanford

Worked with Skillsoft for 6+ years

Love dogs, have 4 dogs at home (oh and one human kid 😊)



Python

Versatile, high-level programming language known for its readability and simplicity, ideal for both beginners and experienced developers to build a wide range of applications, from web development to data science and automation.



Features of Python

Accessible to beginners – simple and readable syntax



Versatile – used across various domains. Web development, scripting, data analysis, machine learning



Rich ecosystem of libraries and frameworks



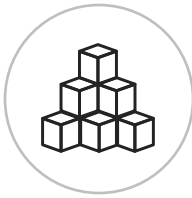
Interpreted vs. Compiled

An **interpreted language** executes code line by line at runtime using an interpreter, allowing for immediate execution but generally resulting in slower performance.



A **compiled language** translates code into machine language before execution through a compiler, resulting in faster performance but requiring the entire code to be compiled before it can be run.

Python is an Interpreted Language



Interactive development –
fast feedback



Portability – can run on any
platform



Executes code dynamically
– allows rapid prototyping

“Hello World” in Java

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

“Hello World” in Java

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```


“Hello World” in Java

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

“Hello World” in Java


```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

“Hello World” in Java

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

“Hello World” in Java

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```



“Hello World” in Python

```
print("Hello, World!")
```

“Hello World” in Python

```
print("Hello, World!")
```

“Hello World” in Python

```
print("Hello, World!")
```


Poll

Why are you learning Python? What kind of applications do you plan to build?



Poll

What previous experience do you have in the world of software development? SQL?
Database administration? Other programming languages?

