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# **Big Data**

# Riya Dave (202318011)

Configuring PySpark on Windows involves a few steps. Here's a basic guide to help you get started:

## 1. Install Java Development Kit (JDK):

- PySpark requires Java to be installed on your system. Download and install the latest version of the JDK from the official Oracle website: Java SE Downloads.
- After installation, set the JAVA\_HOME environment variable to point to the JDK installation directory. You can do this by going to Control Panel > System and Security > System > Advanced system settings > Environment Variables, then add a new system variable named JAVA\_HOME and set its value to the JDK installation directory (e.g., C:\Program Files\Java\jdk1.8.0\_281).

## 2. Install Apache Spark:

- Download the latest version of Apache Spark from the official website: Apache Spark Downloads.
- Extract the downloaded Spark archive to a directory of your choice (e.g., C:\spark).

#### 3. Set SPARK HOME Environment Variable:

• Similar to JAVA\_HOME, you need to set the SPARK\_HOME environment variable to point to the Spark installation directory. Set it to the directory where you extracted Spark (e.g., C:\spark).

#### 4. Add Spark's bin directory to PATH:

 To easily run Spark commands from the command line, add Spark's bin directory to your system's PATH environment variable. Append C:\spark\bin to the PATH variable.

# 5. Install Python:

- If you haven't already, install Python on your system. You can download Python from the official Python website: Python Downloads.
- Make sure to check the option to add Python to PATH during installation.

#### 6. Install PySpark:

You can install PySpark using pip, Python's package manager. Open a command prompt and run:

```
pip install pyspark
```

# 7. Verify Installation:

• To verify that PySpark is correctly installed, open a command prompt and run:

```
pyspark
```

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• This command should start the PySpark shell, and you should see the Spark logo and a Python prompt (>>>).

That's it! You have successfully configured PySpark on your Windows system. You can now start using PySpark for data analysis and processing.