Questionnaire - Python , R and Java

Dear Participant,

We would like to invite you to participate in our **survey on Python, R, and Java.** The purpose of this survey is **to understand the preferences and opinions** of individuals who have experience using these programming languages.

The survey will inform educational institutions about the suitable programming language for their specifications and education level, leading to better educational outcomes and better prepared graduates.

Your participation in this survey is completely voluntary, and all **responses will be kept confidential**. The survey should take approximately **about 10 minutes** to complete, and your answers will be **used for research purposes only**, please answer all questions truthfully and to the best of your ability.Your input is invaluable to us.

✉️❌ Not shared

☁️✓

* Indicates required question

What is your age? *

Choose ▼

What is your level? *

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4

What is your gender? *

- ◯ Male
- ◯ Female

please, put the last **6** number of your id
For **random prize drawing**

Your answer

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✉ Not shared

☁

We appreciate you for answering our main questions

Which of the following fields are you interested in? *

- ☐ Mobile Applications
- ☐ Cyber Security
- ☐ AI
- ☐ Data science
- ☐ Web Development
- ☐ Other:

Based on your interested field, which programming language helps you <u>the</u> <u>most</u>? *

○ Python

○ Java

○ R

○ Other:

In terms of job opportunities and career growth, which programming language do you think is most in demand? *

○ Python

○ R

○ Java

○ Other:

Do you prefer to choose a language you are already familiar with for your tasks? *

○ Yes

○ Sometimes

○ No

How familiar are you with each language? *

1 (Very unfamiliar)
5 (Very familiar)

	1	2	3	4	5
Python	○	○	○	○	○
R	○	○	○	○	○
Java	○	○	○	○	○

In your opinion, how important is it to know multiple programming languages for * **use in data science?**

Not important

1　○

2　○

3　○

4　○

5　○

Very important

Which programming language do you prefer for data science projects? *

○ Python

○ R

○ Java

Do you consider the current trends in industry and job markets when choosing a * **language for tasks?**

○ Yes

○ sometimes

○ No

If you agree the pervious question, can you determine why?

☐ To have a great chance of being accepted into jobs

☐ To be prepared with the essential skills for more career options

☐ to keep up with the trend

☐ Other:

Which programming language(s) do you think are trend in the job market towards hiring professionals with skills? *

☐ Java

☐ R

☐ Python

☐ Other:

Which language are you more proficient in? *

○ Python

○ R

○ Java

Do you consider the specific requirements of your project when choosing a language for tasks? *

○ Yes

○ Sometimes

○ No

Can you identify the last task you worked on?

Your answer

Which language did you use in this task? and why?

Your answer

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✉ Not shared

☁

*Indicates required question

Now we need to take your opinion about the functionality of these languages

How much do the features of the programming language influence your decision *
to use it for a project?

Not at all

1 ○

2 ○

3 ○

4 ○

5 ○

Extremely

In your opinion, what is the <u>main</u> functionality of each language?

Python : *

- ⭕ Scientific computing
- ⭕ Machine learning and artificial intelligence
- ⭕ Automation
- ⭕ Data analysis and visualization
- ⭕ Other:

R : *

- ⭕ Data mining
- ⭕ Data analysis and visualization
- ⭕ Cross-platform compatibility
- ⭕ Statistical analysis
- ⭕ Other:

Java : *

- ⭕ Object-oriented programming
- ⭕ Web development
- ⭕ Mobile development
- ⭕ Creating graphical user interfaces (GUIs)
- ⭕ Other:

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Not shared

At the end, we would like you to share your experience in learning programming

How easy do you find the learning process for each language? *
1 (Very hard)
5 (Very easy)

	1	2	3	4	5
Python	○	○	○	○	○
R	○	○	○	○	○
Java	○	○	○	○	○

Which programming language do you think has the best community support and resources available? *

- ◯ Python
- ◯ R
- ◯ Java

What resources do you use to learn each language?

Python : *

- ☐ Codecademy
- ☐ edX
- ☐ Python.org
- ☐ Coursera
- ☐ Other:

R : *

- ☐ Coursera
- ☐ YouTube
- ☐ Online communities
- ☐ Books
- ☐ Other:

Java : *

- [ ] Udemy

- [ ] Online communities

- [ ] Oracle

- [ ] Coursera

- [ ] Other:

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Thank you for taking the time to complete this survey. Your responses will help us better understand the factors that influence the choice of programming language for projects

THANK YOU! ♥

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