I’ve used R, SQL, and Python so far in this master’s program, but I’m new to Scala/Java. Since Python has been my primary programming language for a while, I believe it would be interesting to make comparisons between Python and Scala in order to see their differences.

Let’s compare Scala with Python:

* Performance: when it comes to performance it seems Scala is ahead of Python. This is because it is a statically typed programming language (leading to faster executions) and Python a dynamically typed programming language.
* Scalability: Scala is more scalable than Python because it is less error-prone and compile faster at runtime. Again, because Scala’s principles ->  static typing, object oriented, and functional.
* Scala can be harder in the long run: Sometimes Scala has been quite confusing to me, especially since I don’t have experience with Java. Basing my observations on personal experience, it seems Python might be the more user-friendly language after all. In contrast, Scala is considered a complicated programming language o master.
* Security: Scala follows the tenets of type-safety guarding against changing variables (this can reduce many errors). In the other hand, Python doesn’t follow these tenets of type-safety, hence leading to errors and less secure codes.

Source:

<https://streamsets.com/blog/python-vs-scala-comparison/#:~:text=When%20it%20comes%20to%20performance%2C%20Scala%20is%20the%20clear%20winner,variable%20or%20expression%20at%20runtime>.