



9th–13th November

EU Connect 2020

The Clinical Data
Science Conference

How I learnt Python in 15 Days?

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What to expect...

- Where it all began...
- Why Python?
- How can this help you?
- So how *did* I do it really?
- Hence, I conclude...
- Questions anybody?

Where it all began...

- Today's data-driven world that is fast moving towards fully functional AI
- Increase in volume and variety of data and rise of big data analytics, ML
- Need for new technologies in the field of data handling, analytics
- Rapidly changing nature of our own industry
- SAS, R and Python
- Python and 15 Days thing

Why Python?

- More of a programmer's language
- GPL and production-ready
- Simplicity and readability
- Strong object-oriented features
- Robust Libraries and Community support
- Free
- Rising Popularity

How can this help you?

- Seasoned programmer with multiple years of experience on general purpose programming languages
- Seasoned SAS programmer with multiple years of experience on SAS programming
- A beginner to the field of Programming



So how did I do it?

Egg

“The Foundation”



- Define specific goal for learning Python
- Get a good reference book
- Finalize online reference source, practice platforms
- Get Python installed and running
- Set up a detailed plan for next 15 days
- Programming acumen

Caterpillar & Pupa – “The Feeding & Transition”

Day 1-3	• Environment, Basics • Data types & structures • Python files • Libraries/Packages/Modules	Getting used with Python Semantics, Keywords Data Types, Variables & Operators Objects, Lists, Tuple, Set, Dictionaries Built-in modules and packages
Day 4-6	• Strings & Statements • Control Flow • Conditional processing • Iterative processing	Indexing, Slicing and Matrixes Assignments, Expressions if, else, elif, for, while, break, continue, pass, Comprehensions
Day 7-9	• Defining and using Functions • Exception handling • Regular Expressions	Built-in functions, customized functions Inbuilt exceptions
Day 10-12	• OOP	Class, Methods, instance creation
Day 13-15	• Packages*	NumPy, Pandas, SciPy, Matplotlib, Math, OS, SYS

Caterpillar & Pupa

“The Feeding & Transition”



- **Goal based learning**
 - Define specific goal for learning Python
 - Targeted & concise learning plan
- **Efficient use of time**
 - 2 hours on weekdays and 3-4 hours on weekends
 - 40% theory and 60% Coding
- **Practice is the key**
 - Emulate routine SAS programs
 - Leverage online platforms
 - Keep coding and keep making mistakes

The Butterfly- “Into the open...”



- Working Python programmer with strong foundation
- Learning is a continuous process
- Making even more mistakes
- Exploring SciPy, Pandas, Matplotlib in further detail
- Trying to learn Django now and hope to create my own app soon
- Teaching Python to beginners
- Going to learn SciKit-Learn

Hence,
I conclude...

- Python is simple yet very powerful tool
- 15 Days are NOT enough to learn Python *completely*
- 15 Days are certainly enough to learn it with a specific goal*
- Its easier if you have strong programming acumen
- For working professionals, its going to be difficult but not impossible
- You can learn **ANYTHING**, if you have enough zeal and right approach



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THANK YOU

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