



Welcome!

- Hello and welcome!
- For clinical research professionals, data is everything.
- SAS: Long-standing industry standard.
- But the landscape is evolving...



LINICAL DATA DASHBOARD

SUBJECT	AGE	SEX	RESULT
1001	30	M	12.6
1002	30	Р	13.5
1008	30	M	13.3
1004	27	F	13.4
1005	31	M	10.5
1005	30	F	18.8

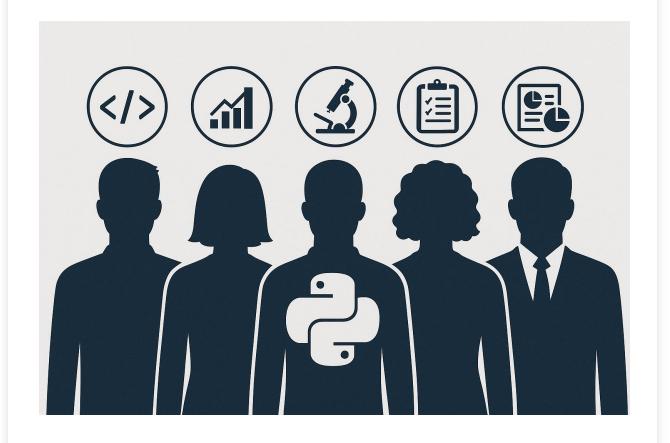
Why Python foreGlinical Trials?



- Unparalleled Flexibility
- Vast Ecosystem of Free, Powerful Libraries
- End-to-End Capabilities: Data, Stats, ML, Reporting
- "One-Stop Shop"
- Impact: Enhanced Efficiency & Analytical Power

Who is This Course For?

- Seasoned SAS Programmers: Expand skillset, transition to open-source.
- Data Scientists/Analysts: Apply Python expertise to clinical research.
- Clinical Data Managers: Automate data quality & transformations.
- Biostatisticians: Seek powerful, flexible tools for modeling & visualization.
- **Anyone:** Building robust, reproducible, regulatory-compliant data pipelines.



What You'll Learn: Course Modules



Introduction & Environment Setup



Data Handling & Manipulation (Pandas/NumPy, SAS Comparisons)



Statistical Analysis (SciPy, Statsmodels, Lifelines)



Data Visualization (Matplotlib, Seaborn)



CDISC Standards (SDTM & ADaM Generation)



Advanced Topics & Regulatory Compliance (ML, NLP, Automated Reporting, 21 CFR Part 11, GxP)



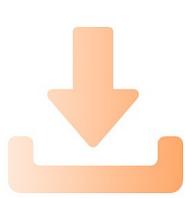
End-to-End Capstone Project



Module 7: End-to-End Capstone Project

Course Features & Benefits

- Highly Practical: Hands-on Coding Exercises
- Real-World Data: Dummy Clinical Datasets
- Direct Comparisons: Python vs. SAS Code Examples
- **Downloadable:** All Source Code, Data, Resources
- **Prerequisite:** Basic Python knowledge (refresher included!)





Your Future in Clinical Data Science

- Modernize Your Skills
- Open New Career Opportunities
- Contribute to Advancing Healthcare
- Call to Action: Enroll Now!

PYTHON FOR CLINICAL TRIALS

