

Bioinformatics Data Analysis

Courses Series



Comprehensive Hands On Training in Bioinformatics

*A practical approach to understanding biological data through
Computational and statistical analysis.*

About Us

SciFixia is a Pune-based learning hub offering **practical, industry-oriented training in Life Sciences and Information Technology**. We focus on **hands-on, on-job learning** using real data, real tools, and real-world problem solving.

Our certified programs help learners build strong **technical skills, analytical thinking, and industry readiness** through interactive and application-driven training.

At **SciFixia**, we are committed to making quality education accessible and preparing future-ready professionals for today's evolving industries.

Duration - Online (6 days) Timing - Evening

Why Choose SciFixia?

-  **Real-time industry training**
-  **Hands-on with real datasets**
-  **Genomics & computational biology focus**
-  **Online expert-led sessions**
-  **Certification with job-ready skills**

Course Details

BioPython (6 Days)

- A hands-on introduction to Python programming and Biopython, focusing on applying programming concepts to biological and DNA sequence data.
- Calculate nucleotide composition, GC content, transcription, translation, and identify ORFs.
- Create basic graphs and plots using Matplotlib for biological data interpretation.

Module	Tools
Module 1 — Introduction to BioPython Fundamentals & Sequence Analysis	PyCharm
Module 2 — Variable And Data Types	NumPy
Module 3 — Data Structure and Library	Pandas and Matplotlib
Module 4 — Sequence Analysis & File Handling	NCBI,
Module 5 — Sequence Alignment Using BioPython	Pairwise Alignment
Module 6— Mini Project	-

Outcomes of this Course

- Analyze DNA and protein sequences using Python and Biopython.
- Use bioinformatics tools and databases for sequence retrieval and analysis.
- Develop practical programming and bioinformatics skills for biological data analysis.