



MFCCEM Workshop

Python for Biologists



Dr. Prince Kumar Lat

About Me

- Rooted in engineering, with a deep curiosity and interest in biology



Education

- ❖ B.Tech – BSBE, IIT Kanpur, India
- ❖ PhD – Biophysics & Comp Bio, SFU, Canada

Professional Experience

- ❖ Postdoctoral Researcher, BC Cancer, Canada
- ❖ Biostatistician, Platform Life Sciences, Canada
- ❖ Senior Data Scientist, Redwood AI, Canada

Teaching

- ❖ Bioinformatics
- ❖ Nucleic Acids
- ❖ Python/R for data analysis
- ❖ Molecular Bio & Biochem

Research

- ❖ AI-driven Drug Synthesis
- ❖ MD Simulations & NGS
- ❖ DNA Nanotechnology

Hobbies

- ❖ Playing Flute & Tabla
- ❖ Writing Poetries

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Python for Biologists and Beginners

Mastering Python for Biological Data, Automation, and Visualization

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Created by Prince Kumar Lat

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- ✓ Set up a robust Python development environment using Anaconda Navigator and efficiently manage packages for bioinformatics applications.
- ✓ Gain expertise in file handling, data structures, and control flow logic, applied through lots of in-class, hands-on projects.
- ✓ Hidden gems and unique techniques for efficient coding.
- ✓ Master advanced numeric operations, typecasting, and string manipulation techniques through practical exercises designed to handle complex data...
- ✓ Excel in Biopython, regular expressions, data analysis, and visualization with Pandas, Seaborn, and Matplotlib in real-world bioinformatics projects.

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Resources

GitHub

- <https://github.com/princeklat03/MFCCEM-Workshop>

Contact

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