



Machine Learning for R&D in Biotechnology

MEET OUR TRAINER

Dr. Surajit Debnath

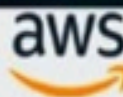
- 13 years of experience in Biomedical Research
- Reviewer of several SCOPUS/SCI indexed journals
- Recipient of Young Scientists Award from different agencies (DBT, DST & CSIR).



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Overview of the Course Machine Learning for R&D in Biotechnology by Dr.Surajit Debnath

In biotechnology, the use of machine learning is changing the game. It helps scientists do better research and create new things. Imagine it like a smart helper guiding them through tricky puzzles of cells and molecules.

****Who Should Attend?**** Scientists, researchers, biotechnologists, data analysts, students, and anyone intrigued by the intersection of biotechnology and machine learning.

Course Module :

Module 1: Introduction to Data Science in Biotechnology

Module 2: Fundamentals of Machine Learning

Module 3: Machine Learning Algorithms for Biotech Predictions

Module 4: Applying Machine Learning in Cancer Genomics

Module

5: Machine Learning in Cancer Genomics and Proteomics

Detail Course Structure :

Module 1: Introduction to Data Science in Biotechnology

- Understanding Data Science in the Biotech Context
- Overview of Prediction Algorithms in Biotechnology
- Importance of Data Quality and Preprocessing
- Hands-on: Data Preprocessing for Biotech Datasets

Module 2: Fundamentals of Machine Learning

- Supervised vs. Unsupervised Learning in Biotech Applications
- Key Machine Learning Concepts for Biotechnologists
- Database Handling for Biotech Data: Challenges and Solutions
- Introduction to File Formats and Conversions in Biotech Data

Module 3: Machine Learning Algorithms for Biotech Predictions

- Regression Algorithms for Continuous Data Prediction
- Classification Algorithms for Categorical Data Prediction
- Feature Selection and Dimensionality Reduction in Biotech Data
- Practical: Building a Predictive Model for a Biotech Case Study

Module 4: Applying Machine Learning in Cancer Genomics

- Cancer Genomics: Introduction and Significance
- Sequence Alignment Analysis in Cancer Genomics
- Introduction to Machine Learning Tools for Sequence Analysis
- Hands-on: Utilizing Machine Learning Software for Cancer Sequence Analysis

Module 5: Machine Learning in Cancer Genomics and Proteomics

- Naive Bayes Algorithm: Theory and Application in Biotech
- Naive Bayes for Cancer Genomics: Case Study and Examples
- Naive Bayes in Proteomics: Analyzing Protein Data
- Workshop Project: Implementing Naive Bayes for Biotech Data Analysis

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