

Explainable AI in Biomedical Predictions — Hands-on

Build interpretable, auditable AI for biomedical use-cases. Learn local & global explanation methods, counterfactual analysis, uncertainty quantification, calibration, bias/fairness auditing, and rigorous reporting so your models can be trusted in research and translational settings.

Explainable AI in Biomedical Predictions

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Session 1

Fee: Rs 13,200 [Apply Now](#)

XAI Foundations & Global vs Local

Why explainability? risk, accountability, reproducibility

[research & clinical contexts](#) [audit trails](#)

Global vs local explanations & evaluation

[global importances](#) [local attributions](#)
[fidelity/stability tests](#)

Toolchain

[SHAP, LIME](#) [Captum / ELI5](#) [Alibi / DiCE](#)

Session 2

Fee: Rs 18,400 Apply Now

Feature Attributions & Saliency

Model-agnostic & model-specific methods

permutation importance partial dependence/ICE
accumulated local effects

Deep nets interpretability

Integrated Gradients Grad-CAM/CAM
DeepLIFT/SmoothGrad

Reliability checks for explanations

sanity checks stability/robustness faithfulness
metrics

Session 3

Fee: Rs 23,600 Apply Now

Counterfactuals, Uncertainty & Fairness

Counterfactual explanations & recourse

DiCE actionability/feasibility cost constraints

Uncertainty & calibration

aleatoric/epistemic temperature scaling conformal
prediction

Fairness & bias audits

group/individual fairness thresholding & parity
mitigation strategies

Session 4

Fee: Rs 29,600 Apply Now

Mini Capstone: XAI Audit & Report

End-to-end audit on a real bio model (omics/clinical)

Theory + Practical

Governance artifacts & documentation

model cards **datasheets** **risk register**

Deliverables: notebook, XAI dashboard & PDF brief

attribution plots **counterfactuals** **calibration curves**