

Capstone — End-to-End Pharmacogenomics & PMx Project — Hands-on

Apply everything learned across pharmacogenomics and pharmacometrics into a guided, end-to-end project. In this capstone, you will frame a PGx–PMx use case, assemble and interrogate datasets, structure a conceptual PK/PD reasoning path, and prepare a clear genotype-to-dose decision-support report with audit-ready documentation.

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Session 1

Fee: Rs 8800 [Apply Now](#)

Use-Case Framing & Data Landscape

Selecting a PGx–PMx use case and clinical context

high-impact drug-gene pair **indication and line of therapy** **clear clinical decision question**

Mapping the data landscape for the project (conceptual)

PGx results and phenotypes **dose, exposure and outcome records** **basic covariates and comedications**

Drafting a one-page project charter

objectives and key questions **scope, assumptions**
and constraints **simple milestones and timelines**

Session 2

Fee: Rs 11800 Apply Now

PGx Interpretation & PMx Reasoning

Summarising pharmacogene findings for the chosen case

genotype to phenotype translation **conceptual use of**
guideline tiers **baseline risk narrative for the patient**

Structuring a PK/PD and exposure–response reasoning path

clearance and exposure expectations **effect window**
and toxicity window ideas **impact of covariates in**
plain language

Aligning PGx interpretation with dose and regimen options

candidate starting dose bands **when to avoid or**
switch medicines **initial monitoring and follow-up**
plans

Session 3

Fee: Rs 14800 Apply Now

Integrated Workflow & Mock Outputs

Designing the end-to-end PGx–PMx workflow on paper

from sample and data intake to report **key**
checkpoints and handshakes **simple swimlane**
diagram for teams

Preparing mock analytic and decision-support outputs

tables and plots that summarise exposure **PGx-aware**
dose recommendation block **notes for EMR or report**

integration

Capturing rationale, assumptions and limitations clearly

what data were used and not used strength of

evidence narrative when to revisit or update

decisions

Session 4

Fee: Rs 18800 Apply Now

Final Showcase & Audit Trail

Presenting the genotype-to-dose recommendation to peers

5–10 minute oral presentation single-slide clinical

summary Q&A from a mixed audience

Building a simple audit trail for the project

versioned artefacts and logs list decision and

assumption register hand-over note for future work

Deliverables: PGx–PMx project dossier and reflection note

PDF or PPTX dossier 1–2 page written reflection

portfolio-ready project summary