

IP & Patent Mining for Drug Discovery — Hands-on

Turn the world's patent corpus into **actionable discovery intelligence**. This hands-on module covers **chemical text mining** (NER, normalization, name-to-structure), **Markush awareness**, **IPC/CPC schema usage**, **prior art & FTO triage**, and **competitive landscaping**. You will build **reproducible pipelines** that connect patents, literature, and chemistry data to guide portfolio and project decisions.

IP & Patent Mining for Drug Discovery (Text Mining)

[Help Desk](#) · [WhatsApp](#)

Session Index

[Session 1 — Patent Basics, Sources & Data Model](#) | [Session 2 — Chemical NER & Name→Structure](#)

[Session 3 — Prior Art, FTO & Landscapes](#) | [Session 4 — Mini Capstone: Alerts & CI Pack](#)

Session 1

Fee: Rs 20800 [Apply Now](#)

Patent Basics, Sources & Data Model

Patent anatomy & jurisdictions

[claims/spec/drawings](#) | [priority family, legal status](#)

[WIPO/USPTO/EPO feeds](#)

Classification & retrieval

[IPC/CPC keywords](#) | [assignee/inventor search](#) | [family](#)

[de-duplication](#)

Data model & storage

document→claim→entity links **chem structures as first-class** **provenance & audit**

Session 2

Fee: Rs 23800 Apply Now

Chemical NER, Normalization & Name→Structure

Entity extraction (patents & papers)

IUPAC, trivial names, IDs **targets/indications** **assay outcomes**

Name→structure & standardization

OPSIN/RDKit heuristics **tautomer/stereo handling**
Markush caveats

Relevance ranking & linking

claim vs spec weighting **family & citation graphs**
assignee normalization

Session 3

Fee: Rs 26800 Apply Now

Prior Art, FTO & Competitive Landscapes

Prior art & novelty scanning

substructure/similarity (SAR) **series-level overlap**
time & geography context

Freedom-to-operate (FTO) triage*

claim scope heuristics **legal status snapshots**
outside-counsel handoff

Landscape & portfolio views

assignee share & trends **target/indication maps**

white-space detection

FTO outputs here are for internal R&D triage only and are **not legal advice.*

Session 4

Fee: Rs 30800 Apply Now

Mini Capstone: Alerts, Dashboards & CI Pack

Build a patent-mining pipeline (ingest → extract → link → report)

Theory + Practical

Automated alerts & watchlists

assignee/IPC/CPC rules **keyword & target triggers**
email/Slack exports

Deliverables

landscape deck (PDF) **entity table (CSV/JSON)**
configs/notebooks for reruns