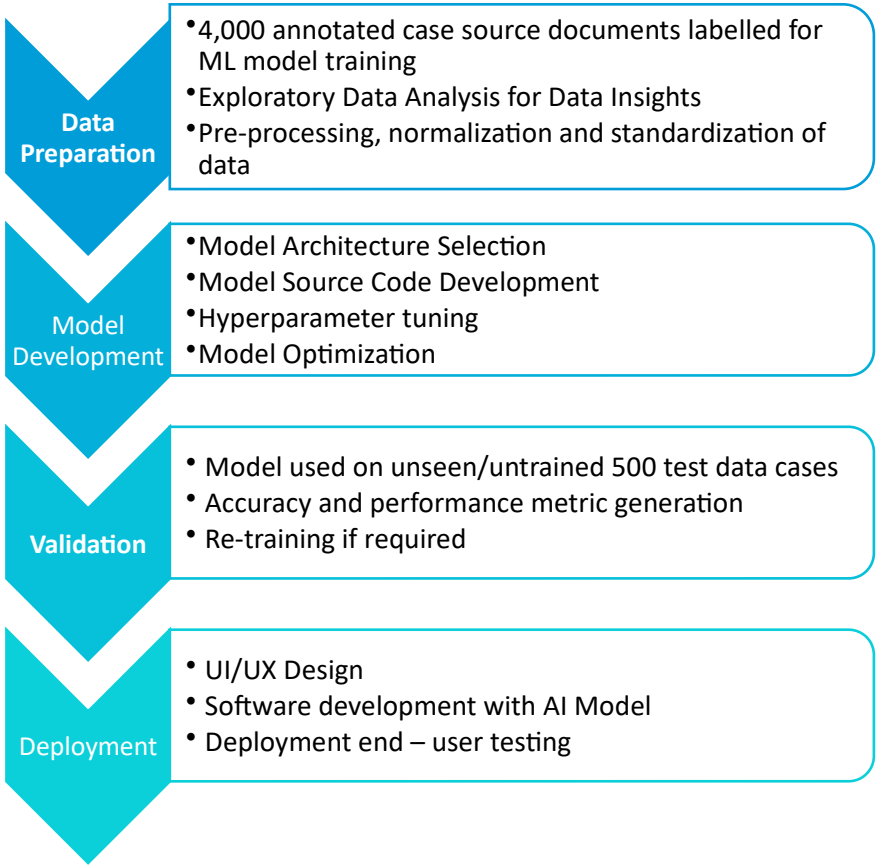
Optimized Automated Pharmacovigilance Workflow

Reduced 70% Manual Efforts and 50% Operational Expenses

- A solution for a leading US based Biopharmaceutical company specializing in wide range of medical disciplines.
- The algorithm had the ability to extract critical case elements in text editable format from source documents on adverse drug reactions.
- 4,000 annotated source documents in the form of structured and unstructured format were annotated by our experts comprising of medical doctors and pharmacists.
- The training data set comprised of appropriate text elements and contextual relation within the text covering a broad range of information : Adverse Events, Patient Demographics, Reporter Details, Product Information and Case Details
- Robotic Process Automation, Object Character Recognition, Table pattern recognition, sentence classification, named entity recognition and rule based pattern matching were used to extract data from the digitized documentation.
- Test data consisted of 500 source documents which were evaluated by the algorithm and iterative model training was done to achieve desired accuracy .
- Database accessed Argus, ArisG, Sapphire via QXML based API calls for auto-population of Database fields
- Other features:
- Automated Quality with minimal human intervention
- Sorting of AE by severity
- KPI dash boarding and reporting



Team Size	Phases / Model	Performance	Business Impact
35	Ongoing continuous Case Processing model	80% Precision for case validity 50% reduction in FTEs 99% Quality	Cost savings by upto 50% 70% reduction in manual efforts over a period of 4 months : data entry, validation, triaging 100% regulatory compliance and faster TAT