



India Focused Business Plan & Scalability

Phase 1: Prototype Development (0–12 Months, India)

Target Audience (India):

- Academic & research labs in virology and bioinformatics: ~250 active labs (e.g., CSIR-IGIB, NCCS Pune, NIB Noida, NCBS Bangalore).
- Indian Council of Medical Research (ICMR) affiliated centers: 28 institutes.
- Startups in biotech/AI (BIRAC-funded: 1,600+ startups).

System Accuracy Targets:

- Mutation prediction accuracy: ~80% on SARS-CoV-2 and Influenza datasets from INSACOG consortium.
- Protein folding RMSD: <2.5 Å deviation.
- Docking free-energy prediction error: ± 1.2 kcal/mol compared to NIPER (India) wet-lab data.

Statistical Data:

- Process ~2–3 lakh viral genomes from INSACOG sequencing labs in Year 1.
- Generate ~5,000 protein structural models.
- Run ~20,000 docking simulations on Indian datasets.

Revenue Potential (India):

- Pilot contracts with 5–7 national labs (~₹30–50 Lakhs per lab/year).
- Year-1 estimated revenue: ₹3–5 Crore.

Phase 2: Core Module Expansion (12–24 Months, India)

Target Audience (India):

- Indian pharmaceutical companies (~3,000 registered, 300 major exporters).
- Top Indian pharma: Sun Pharma, Dr. Reddy's, Cipla, Biocon, Zydus Cadila, Serum Institute.
- CROs (Contract Research Organizations): ~1,000+ in India.

System Accuracy Targets:

- In-silico clinical trial simulation accuracy: ~78–80% vs Indian trial data (ICMR/DBT datasets).
- Drug-likeness filtering precision: 85% (validated against CDSCO-approved molecules).

- Side-effect prediction: ~75% match with Indian clinical reports.

Statistical Data:

- Simulate ~500 Indian clinical trial candidates virtually.
- Screen ~2–5 lakh drug molecules from Indian pharma pipelines.
- Narrow candidates by ~95%, leaving 100–200 leads.

Revenue Potential (India):

- SaaS/API licensing for pharma companies: ₹1.5–2 Crore/year per client.
- Expected adoption: ~10 pharma companies in 2 years.
- Year-2 revenue: ₹25–30 Crore.

Phase 3: Full Platform Deployment (24–36 Months, India)

Target Audience (India):

- National health agencies: ICMR, CDSCO, DBT, MoHFW.
- State-level medical research institutions (~50+ state virology labs).
- Tier-1 hospitals with research facilities: AIIMS, Apollo, Fortis, Narayana, Manipal, etc.

System Accuracy Targets:

- Outbreak forecasting accuracy: $\geq 82\%$ correlation with Indian epidemiological data (NIV Pune, ICMR datasets).
- Mutation-to-symptom mapping: $\geq 85\%$ accuracy vs hospital case studies.
- Deadliness Score reliability: $\geq 80\%$ vs INSACOG observed mutations.

Statistical Data:

- Process ~10 lakh genomes annually from INSACOG + DBT labs.
- Handle real-time ~10K new samples/day from surveillance feeds.
- Forecast outbreaks with district-level granularity.

Revenue Potential (India):

- SaaS subscription for ICMR & MoHFW: ~₹10–15 Crore/year.
- Hospital partnerships: ~100 hospitals @ ₹25–50 Lakhs/year.
- Year-3 revenue: ₹75–100 Crore.

Phase 4: National Scaling & Government Integration (36–60 Months, India)

Target Audience (India):

- Central Government: Ministry of Health & Family Welfare, DBT, DST.
- National health missions (NHM, Ayushman Bharat).
- Public–private partnerships with Serum Institute, Bharat Biotech, Biocon.

System Accuracy Targets:

- Multi-omics integration (proteomics + transcriptomics): ~88% prediction accuracy.
- Vaccine candidate prediction success: ~70% match with Bharat Biotech/Serum Institute wet-lab validation.
- Outbreak prevention forecasting: lead time of 6–12 months for high-risk strains in India.

Statistical Data:

- Cover ~200+ Indian institutions (labs, hospitals, pharma).
- Process ~1–2 crore viral genomes annually.
- Reduce pandemic impact in India by ~₹75,000–100,000 Crore in economic losses per major outbreak.

Revenue Potential (India):

- National-level licensing: ₹100–150 Crore/year government contracts.
- Pharma enterprise deals: ₹15–20 Crore/year per large client.
- Year-5 revenue projection: ₹500–700 Crore (domestic market).