Technology Stack Selection

Backend

- Python (FastAPI)
- Node.js (Express)
- PostgreSQL Database
- Redis Cache

Frontend

- React.js
- TypeScript
- TailwindCSS
- D3.js for visualization

ML/AI

- PyTorch / TensorFlow
- ONNX Runtime
- MLflow for tracking
- Weights & Biases

Infrastructure

- Docker / Kubernetes
- AWS / GCP
- CI/CD (GitHub Actions)
- Terraform

Selection Criteria

Community Support	Performance & Scalability	Security & Compliance
Development Productivity	Cost Efficiency	Maintainability