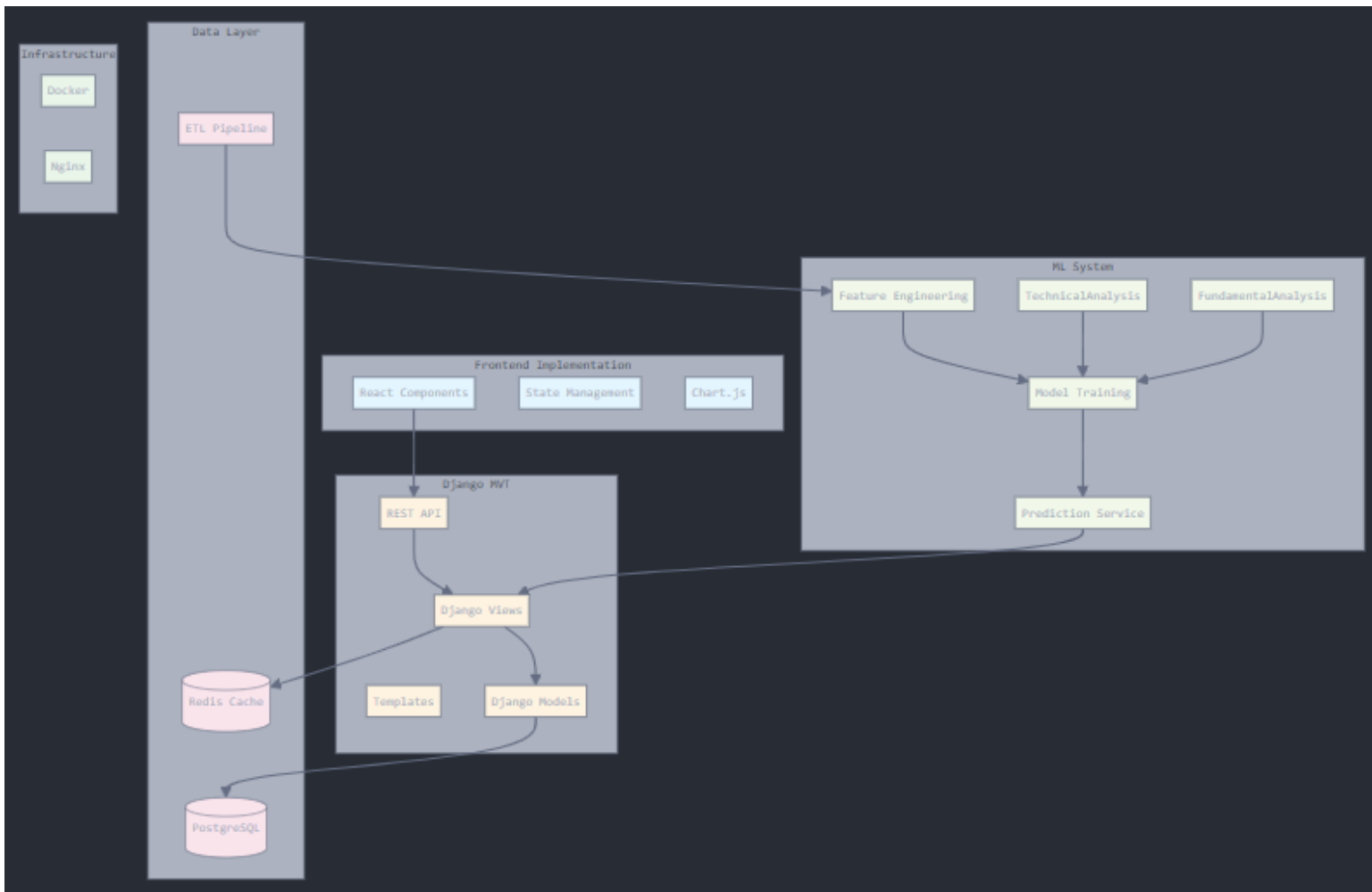


Implementation Architecture



Component Implementation:

1. Frontend
 - React components for UI
 - Redux for state management
 - Chart.js for visualizations
2. Backend
 - Django MVT architecture
 - REST API endpoints
 - Pipeline processing system
 - ML model integration
3. Data Layer

- PostgreSQL models and migrations
- Redis caching implementation
- ETL scripts and schedulers

Technologies:

- Frontend: React, Redux, Chart.js
- Backend: Django, Django REST
- Database: PostgreSQL, Redis
- ML: Scikit-learn/TensorFlow
- Infrastructure: Docker, Nginx

This architecture details exact implementation patterns, directory structures, and technology choices for development.