

Project Proposal: Real-Time 1xBet Prediction App

Objective

Develop a web application that predicts match outcomes and provides real-time betting suggestions for 1xBet using machine learning. The app will deliver insights and recommendations to users based on historical data, live match stats, and ML predictions.

Tech Stack

- **Frontend:** React.js, Tailwind CSS, Axios (for API calls), Socket.IO (for real-time updates)
- **Backend:** Python (Flask/FastAPI), Pandas, NumPy, Scikit-learn, TensorFlow/PyTorch (ML model), Socket.IO
- **Database:** MongoDB/PostgreSQL for storing historical match data and predictions
- **Hosting/Deployment:** Heroku / AWS / Vercel (frontend), Python backend on AWS/Heroku

Project Structure

```
1xBetPredictionApp/
  └── backend/
      ├── app.py                  # Flask/FastAPI main server
      ├── model/
          ├── trainer.py          # Train ML models
          └── predictor.py        # Load model & predict outcomes
      ├── data/
          └── historical_matches.csv
      ├── utils/
          └── data_processing.py
      └── requirements.txt

  └── frontend/
      ├── src/
          ├── components/
          ├── pages/
          ├── services/
              └── api.js            # Axios calls to backend
          ├── App.jsx
          ├── package.json
          └── tailwind.config.js

  └── README.md
```

Key Features

1. **Real-Time Predictions**
 - o Fetch live match data via APIs
 - o Predict likely outcomes using trained ML models

2. **Historical Analysis**
 - Use past match data to improve prediction accuracy
3. **Betting Suggestions**
 - Suggest odds with highest probability of success
 - Highlight low-risk bets
4. **User Interface**
 - Clean React UI
 - Display predictions, statistics, and recommendations
 - Real-time notifications for live matches
5. **ML Model**
 - Train on historical match data (teams, players, odds, scores)
 - Use classification/regression algorithms (Logistic Regression, XGBoost, Neural Networks)

Workflow

1. Backend fetches **live match data**
2. ML model predicts match outcome probabilities
3. Backend sends **real-time suggestions** via API/Socket.IO
4. React frontend displays results to users

Outcome

- Users can view **real-time betting suggestions**
- Provides **data-driven insights** for smarter betting decisions
- Modular structure allows **easy model upgrades**