



Cricket AI Fantasy Assistant

Project Overview

A real-time IPL Fantasy Cricket assistant that uses AI to provide intelligent player recommendations, match analysis, and strategic insights for fantasy cricket enthusiasts.

What It Does

Smart Cricket Analysis: Get AI-powered answers to questions like "Who should I pick as captain?" or "Compare Virat Kohli vs Rohit Sharma for today's match"

Live Data Integration: Real-time match scores, weather conditions, pitch reports, and player form analysis

Quick Actions: One-click access to best team suggestions, differential picks, captain options, and budget-friendly players

Interactive Dashboard: Beautiful glassmorphism UI with live statistics, match insights, and seamless chat interface

Technology Stack

- **Frontend:** HTML5, CSS3, JavaScript ES6+ with glassmorphism design
- **Backend:** Python Flask with RESTful API architecture
- **AI Integration:** OpenAI GPT-3.5 and Anthropic Claude APIs
- **Data Processing:** Real-time cricket data aggregation and analysis
- **Responsive Design:** Works on desktop, tablet, and mobile devices

Key Features



AI Chat Assistant

- Natural language cricket queries
- Multi-AI model support (OpenAI + Anthropic)
- Intelligent fallback responses when APIs unavailable



Real-Time Analytics

- Live IPL match updates and scores
- Weather and pitch condition analysis
- Player form tracking and statistical insights

⚡ Quick Actions

- **Best Team:** Optimized 11-player combinations
- **Differentials:** Low-ownership, high-potential picks
- **Captains:** Data-driven captaincy recommendations
- **Budget Picks:** Value-for-money player options

🎯 Live Dashboard

- Active user statistics and contest data
- Match condition insights (temperature, humidity, pitch analysis)
- Scrollable live match feed with real-time updates

How It Works

1. **User Input:** Ask questions via chat or click quick action buttons
2. **AI Processing:** Query is analyzed by AI models or rule-based engine
3. **Data Integration:** Live cricket data is fetched and processed
4. **Smart Response:** Personalized recommendations with detailed reasoning
5. **Real-Time Updates:** Dashboard refreshes every 30 seconds with latest data

Installation & Usage

```
bash

# Clone and setup
git clone https://github.com/yourusername/cricket-ai-assistant.git
cd cricket-ai-assistant
pip install -r requirements.txt

# Optional: Add AI API keys
set OPENAI_API_KEY=your-key
set ANTHROPIC_API_KEY=your-key

# Run the application
python server.py
# Open http://localhost:5000
```

Target Audience

- **Fantasy Cricket Players:** Get competitive advantage with AI insights
- **Cricket Enthusiasts:** Stay updated with live match data and analysis
- **Data-Driven Gamblers:** Make informed decisions based on real-time analytics
- **Casual Fans:** Easy-to-use interface for cricket information and recommendations

Project Value

For Users: Improve fantasy cricket performance through AI-powered insights and real-time data

For Developers: Demonstrates modern web development with AI integration, real-time data processing, and responsive design

For Businesses: Showcases potential for sports analytics applications and AI-driven user engagement platforms

Technical Highlights

- **Scalable Architecture:** Modular design supports multiple AI providers and data sources
- **Performance Optimized:** Efficient caching, async processing, and optimized database queries
- **Error Handling:** Graceful degradation when external APIs are unavailable
- **Security:** API key management and secure data handling practices
- **Modern UI/UX:** Glassmorphism design with smooth animations and responsive layout

Future Enhancements

- Mobile app development (React Native)
- Historical performance tracking
- Social features and team sharing
- Advanced machine learning predictions
- Multi-league support beyond IPL

Built for Hackathon 2025 | **Demo:** <http://localhost:5000> | **Tech:** Python + Flask + AI APIs