**Client Report Submission**

**For Whether Forecast Using AI Project**

**QUESTIONS:**

1. **What kind of data does the system use for modern techniques?**
2. **What AI/ML techniques to use for predictions of whether forecast?**
3. **How accurate is your system compared to traditional weather forecasting?**
4. **How do you train your machine learning models?**
5. **Can the system provide real-time weather updates?**
6. **How does your AI-based system differ from conventional forecasting?**
7. **Can system predict extreme weather conditions like storms or cyclones?**
8. **Can users customize the forecasts based on their needs?**
9. **What are the major challenges in traditional or AI weather forecasting?**
10. **What can we plan in future for improving the forecasting using ai based?**
11. **How to ensure data security and privacy of forecasted through without getting hacked or any leak of security of system?**
12. **How will the system be fully deployed, and who can access it?**

**ANSWERS:**

1. **The system collects data from multiple sources, including satellite data, weather stations, IoT sensors, and open weather APIs. It analyzes temperature, humidity, wind speed, and atmospheric pressure.**
2. **time-series forecasting models like Long Short-Term Memory (LSTM), Random Forest, and XGBoost techniques to use for predicitions, I think so.**
3. **AI models have an accuracy of 80-90% based on test datasets. Compared to traditional models, AI can quickly adapt to new weather patterns and improve over time.**
4. **historical weather data for training. The model learns from past weather trends and patterns and is fine-tuned using supervised learning techniques.**
5. **integrate real-time APIs that continuously update the model, ensuring accurate short-term and long-term forecasts I think so but based upon my research it was that one does it.**
6. **Traditional systems rely on numerical weather prediction (NWP) models, which are slower and depend on complex physics equations. AI-based forecasting learns patterns from data, making predictions faster and more adaptive.**
7. **use anomaly detection algorithms that detect unusual patterns in weather data, helping predict extreme events like storms and heatwaves can predict it**
8. **Absolutely! Users can set preferences for specific locations, time frames, and alerts based on their requirements.**
9. **The main challenges in ai based forecasting, it may include data accuracy, sudden weather changes, and computational power required for processing large datasets.**
10. **add satellite image analysis using deep learning, improve real-time forecasting accuracy, and integrate AI-powered voice assistants for weather updates.**
11. **use end-to-end encryption for data transmission and follow strict privacy policies to protect user information.**
12. **I aim to launch the system in the next 3-6 months. It will be accessible to individual users, businesses, farmers, and disaster management organizations.**

**GEO TAG PHOTOS:**





