**🧠 Equity Research News Tool**

**🚀 Overview**

This project is a Streamlit-powered **News Research Assistant** that combines:

✅ **Groq LLM Integration** for intelligent query responses  
✅ **NewsAPI Search** for real-time article retrieval  
✅ Smart, clear distinction between **Direct AI answers** and **News-based summaries**  
✅ Built-in **PDF export** for easy offline access  
✅ User Authentication for secure access  
✅ Visualizations like **Article Frequency Charts** for trend spotting

**🎯 Key Features**

* **Detailed or Concise AI Responses** depending on query type
* **Real-time News Summaries** supported by NewsAPI articles
* **Download as PDF** option for every response
* **Session History** to track your past questions
* **Date Filtering** to search recent news within custom timeframes
* **User Login System** with password storage in .env

**🛠 Tech Stack**

* **Streamlit** for interactive UI
* **LangChain + Groq** for advanced LLM queries
* **NewsAPI** for fetching latest news articles
* **FPDF** for PDF generation
* **Python-dotenv** for secure credential management

**🔐 Credentials Example**

In your .env file:

**📦 Setup Instructions**

pip install -r requirements.txt

streamlit run app.py

**🎨 Future Enhancements (Optional)**

* PDF export
* More visual UI polish
* Advanced analytics like topic trends

**💡 Usage Example**

* Ask: *“Who is the Prime Minister of India?”* → Detailed direct answer
* Ask: *“Stock market news today”* → Summarized recent articles with trends