

AI Agent

Core Expectations

1. **Smart Voyage Planning & Optimization**
 - Suggest **optimal routes** considering weather, currents, piracy zones, canal fees, and fuel consumption.
 - Run “**what-if**” scenarios (e.g., slow steaming vs. higher speed, bunker price changes).
 2. **Cargo & Tonnage Matching Assistant**
 - Proactively suggest **best cargo-ship pairings** based on vessel specs, laycan, and cargo requirements.
 - Give **profitability estimates** for each match.
 - Track **open vessels** and **available cargoes** in real time, like a digital chartering assistant.
 3. **Market & Commercial Insights**
 - Provide **market trend analysis** (freight rates, bunker prices, demand/supply imbalance).
 - Benchmark my voyage against **market averages**.
 4. **Port & Cargo Intelligence**

Suggest the **cheapest/fastest bunker ports** en route.
 5. **Automated PDA & Cost Management**
 - Auto-calculate **PDA estimates** (port charges, canal fees, agency costs).
 - Track **actual vs. estimated costs** after the voyage.
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◆ AI Assistant Behaviors

- **Conversational Querying:** Instead of filling 10 forms, I just type:
“Plan a voyage for a Panamax from Santos to Qingdao with a 15-day laycan, compare via Suez vs Cape, give bunker costs at current VLSFO prices.”
 - **Proactive Alerts:**
 - “Storm forecast in Bay of Biscay may delay your vessel ETA by 36 hrs.”
 - “Baltic Dry Index up 5% today – consider fixing sooner.”
 - **Integration & Automation:**
 - Pull data directly from AIS, bunker indices, weather feeds.
 - Generate **ready-to-share reports** for management or charterers.
 - **Decision Support:**
 - Show me **best options ranked by TCE (Time Charter Equivalent), fuel cost**
 - Explain trade-offs clearly: “Route A saves \$120k fuel but adds 3 days. Route B is faster but 25% more emissions.”
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Develop an AI agent that can:

- **Answer queries related to laytime, weather, distances, or CP clauses**
- **Retrieve and summarize uploaded documents**
- **Suggest actions or documents required for specific voyage stages**
- **Offer voice or chat-based interaction**