



AI for Autonomous Business Planning and Optimizing Supply Chain Efficiencies, Sustainability and Margins for Manufacturers



Reduce Costs & Leverage Your Data Wealth to Maximize Margins



Autonomous AI Driven Supply Chains: Improve Productivity & Sustainability



No Data Science Team Needed

We work with leading Fortune 500 Manufacturers

<https://deepvu.co>

 @deepvuHQ

contact: ceo@deepvu.co

Lift margins, minimize supply risks, and optimize sustainability using AI decision models

Leverage the power of **Deep Reinforcement Learning** and our *Supply Chain Graph* to solve for the following challenges:

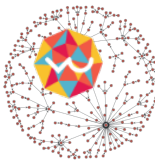
- Procurement & Sustainability Optimization Decision Models
- S &OP—Demand Planning & Auto Replenishment Decision Models
- Production Planning Decision Models
- Logistics Optimization Decision models

Decision Models for Procurement & Sustainability optimization

Manufacturers are very sensitive to commodity prices, tariffs, trade complexities, and even cross-industry dependencies such as Electronics, Industrials and Oil&Gas. The shocks incurred in 2020 have caused severe supply chain disruptions and spikes, but that can be learned and modeled in a Reinforcement Learning Environment. A deepVu procurement decision model that allocates POs to suppliers to optimizer the KPIs, can be trained on two different environments “shocked” and “normal”. Our AI decision model would offer the procurement manager two sets of recommendations for future actions, one if the shocked env persists, and another if a return to pre-covid normal is expected. The user can choose amongst the recommended actions, all of which are intended to optimize the set of weighted KPIs the customer specifies, where sustainability would be highly weighted.

It is impossible for humans or traditional basic forecasting solutions to handle so many trade-offs and dynamic procurement complexity! **DeepVu’s** AI engine is trained on your internal procurement data plus our Supply Chain Graph (a large set of external signals that represent industry and world context) and empowers you to make strategic and tactical decisions based on predicting prices up to 12months out. DeepVu’s decision models learn directly from the feedback (the Reward signal represented by the KPIs) and improve and get smarter with usage.

Furthermore, DeepVu offers **Commodity Forecasting Models**, such as Aluminum, Copper, and Steel. These models are trained on public data sets from Shanghai or Chicago Futures markets, along with our supplychain graph external signals, and are not dependent on any customer data. They can be used as a negotiations assistance tool and can be paired with another supplier price prediction model that’s trained on your own suppliers historical discounting patterns.



S&OP: Demand Planning Optimization

DeepVu continuously learns from your historical inventory and demand data augmented with custom selected external signals. This includes macro/micro economic data, satellite images of distributors parking lots and ports, weather, gasoline, housing starts, population growth, etc to accurately predict future demand at any desired granularity, per SKU per week/month/quarter per customer or market.

Fulfillment & Logistics Decision Models to Optimize for a KPI (e.g OTIF)

DeepVu optimizes warehousing and logistics including forecasting and optimizing OTIF (On-TimeInFull) by building a **Simulation environment** of your warehousing/logistics network and then training an RL **Decision** model that recommends actions for selecting carrier, shipping date, mode, route to optimize for your business KPIs (OTIF score, logistics spend, carbon footprint etc).