# Al Stock Oracle — Deep■Cut Improvement Spec

#### 1. Core Differentiator

Not "news aggregation." Real

time structural

signal detector for CAPEX shockwaves across AI + power

+ water. Output = tradable lead time on illiquid micro

caps and private suppliers.

## 2. Data Layers (Add)

- a) Utility **■**commission dockets (FERC, PUC) early voltage **■**upgrade plans.
- b) Building permit bulk feeds parse for data center SIC codes.
- c) Railcar waybill data spikes in concrete, steel, HVAC loads.
- d) Satellite nighttime■light delta (NOAA VIIRS) hidden rural builds.
- e) Port import manifests abnormal immersion ■cooling tank runs.

## 3. Signal Weighting v2

Score = 0.35×Sync(r) + 0.25×Physical footprint + 0.2×Contract + 0.1×Hiring − 0.1×Noise. Physical footprint = permits + rail + night lights. Adds hard asset confirmation.

## 4. Model Stack Upgrade

- spaCy■Ray for parallel parsing.
- DeepDedup entity

   resolution.
- STL■residual cross■correlation.
- LightGBM active learning retrain nightly.

#### 5. Dashboard v2 Minimum

- Heat■map: correlation vs obscurity.
- One click provenance trail.
- Export to TensorBoard projector.

## 6. Security / Regulatory

- Treat rail/port manifests as CISA sensitive; encrypt at rest.
- FinCEN MSB check if rev > \$1 M.
- Hash personal data in job posting scrape.

### 7. Go■To■Market Stack

Phase 0: free weekly "Orbital Strikes" email.

Phase 1: \$1 K/mo seat.

Phase 2: \$10 K/mo desk licence.

Phase 3: \$250 K/yr quant data licence.

## 8. Capital / OPEX

Run MVP on single M4 + Lightsail front∎end (<\$120/mo).

Satellite/rail feeds ≈ \$800/mo.

Five enterprise pilots cover costs.

# 9. Execution Criticals (Do∎or∎Die)

- Archive raw data day 1.
- Build provenance UI first.
- Sell "motion detection," not sector coverage.
- Fallback scraping for throttled APIs.
- Each alert must cite two evidence types.