Rowan Chen

Data Scientist

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Summary

Data scientist building demand forecasts and evaluation tools for retail planning. Works with planners to define where a forecast changes a decision, then checks error and bias by product group before recommending adoption.

Skills

Python · SQL · Time-series backtesting · Forecast bias analysis · Experiment design

Projects

Regional demand forecasting pilot

2025

Compared a gradient-boosted model with a seasonal baseline using eight held-out weeks across 24 stores. Weighted absolute percentage error fell from 19.6% to 14.8% on the same stores and weeks.

Experience

Data Scientist

Birchlight Retail Analytics | 2022-09 – Present

- Built store and product features from sales, promotions and availability records. Removed stockout days from the training target and assessed their impact separately.
- Tracked weekly forecast bias by category during the pilot. Flagged a seasonal bias in gifts for planner review before widening rollout.
- Documented the evaluation split and forecast assumptions. Built a weekly comparison so planners could inspect model and baseline recommendations before setting quantities.

Data Analyst

Alder Pier Commerce | 2019-07 – 2022-08

- Unified product identifiers across sales and inventory feeds and published tests for missing store-day records.
- Measured the effect of returns on category demand reports. Reconciled units sold and returned before changing the published measures.

Languages

English · Mandarin

Education

MSc Applied Statistics

Clearwater Institute of Science | 2019