

Bernardo Ribeiro

PROJECTS | BUSINESS DATA ANALYTICS PORTFOLIO

Tools: Power BI • DAX • Python • Forecasting • Data Visualization

- Power BI KPI Dashboard: Downtime & Root Cause Analysis (Planned vs Unplanned)
- Python Analytics Dashboard: Sales Insights & Forecasting Model Evaluation



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Project 1 - Downtime & KPI's Dashboard (Power BI)



Goal:

Create a KPI dashboard to monitor machine downtime, distinguish planned vs unplanned stops, identify root causes and support action plans for performance improvement



What I built:

- Developed an interactive Power BI dashboard to track OEE/TEEP, downtime hours and machine utilisation.
- Created breakdown analysis of planned vs unplanned stops, including trends over time and comparisons between machines.
- Implemented a stop reason analysis (Pareto-style) to highlight the main drivers of downtime and guide improvement actions.



Outcome:

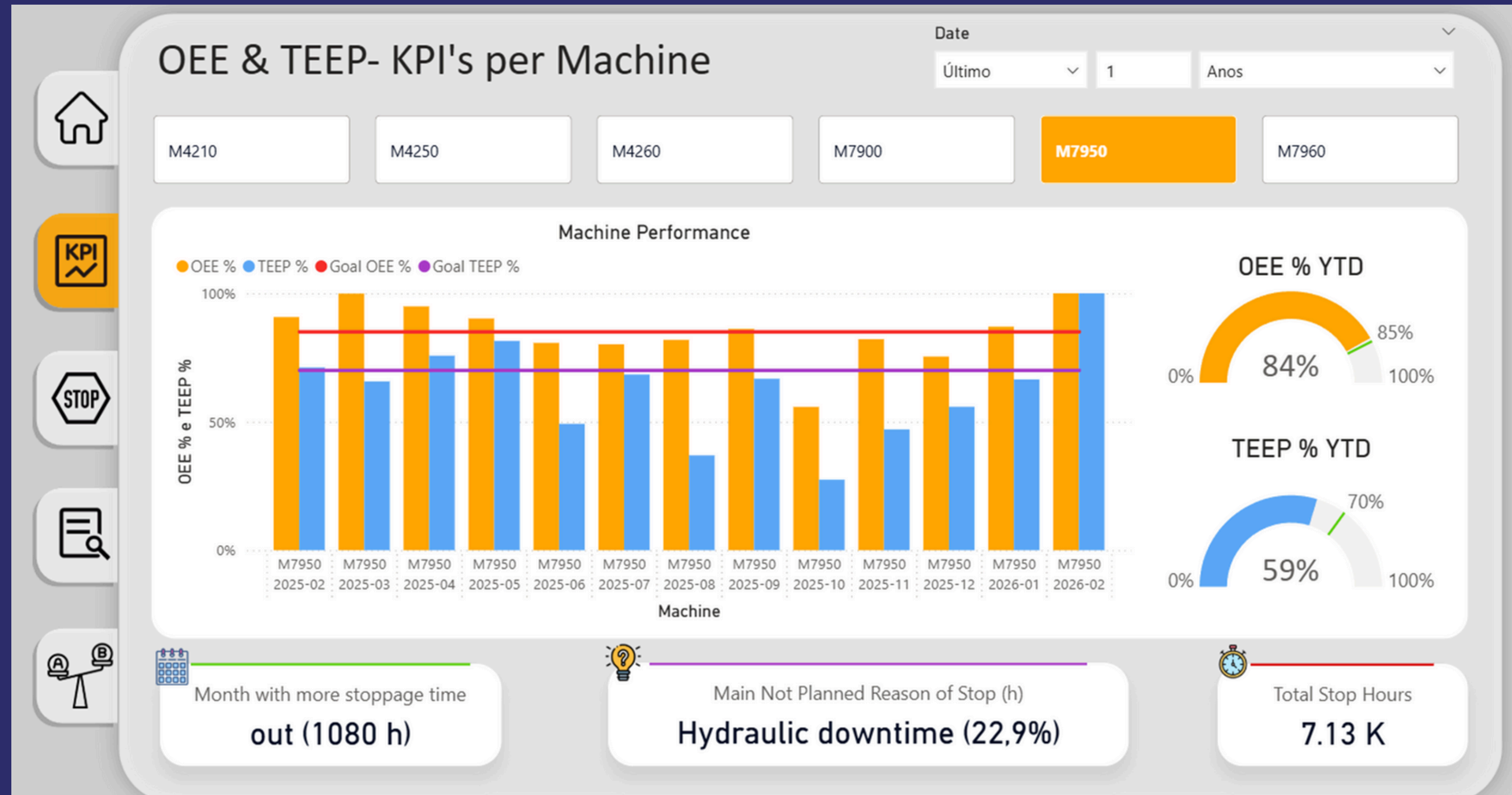
Enabled faster identification of bottlenecks and prioritisation of improvement initiatives based on downtime impact.



Tools:

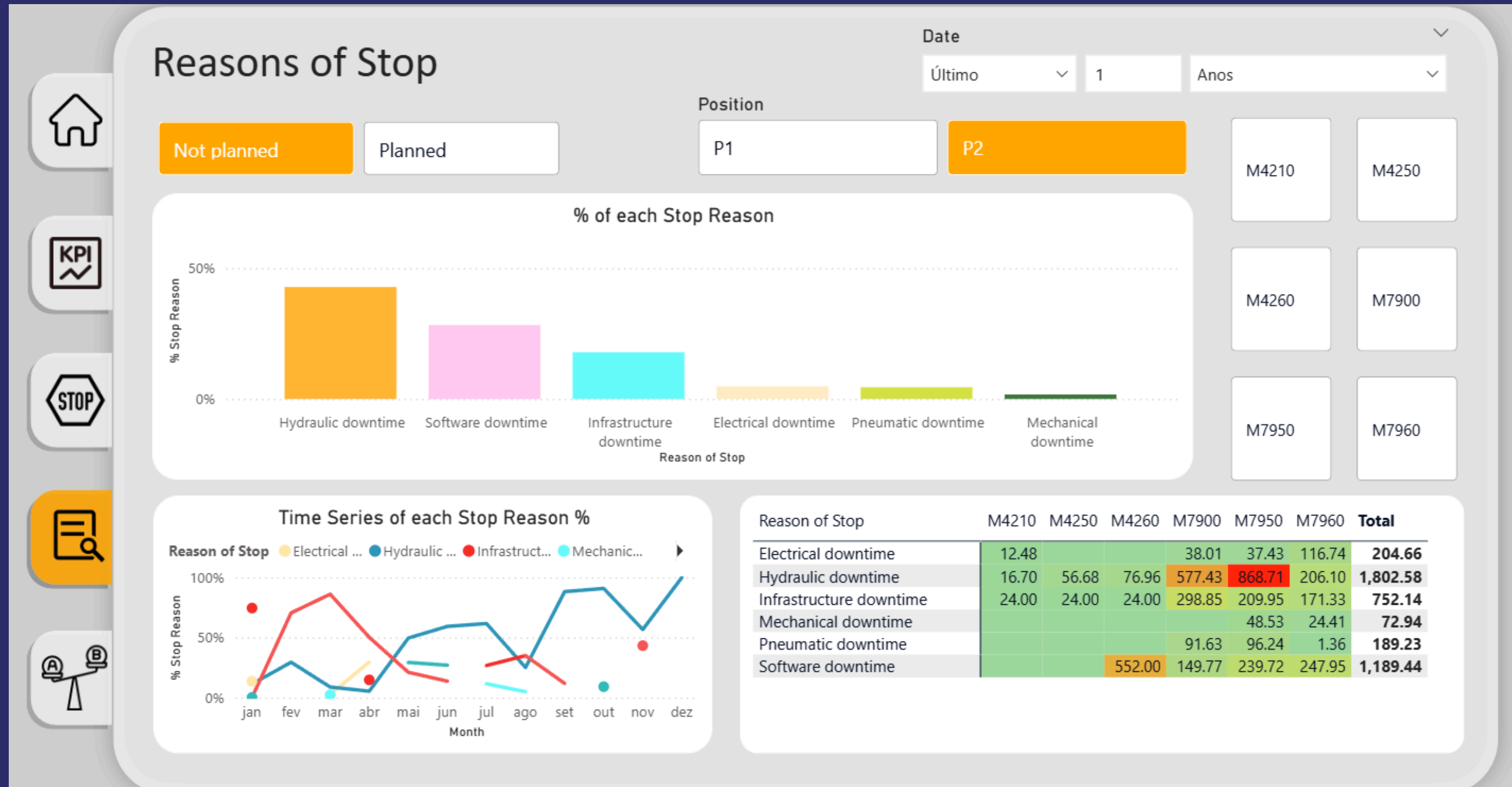
Power BI (DAX, Power Query)

Visual



Note: Dashboards use demo data for confidentiality.

Visual



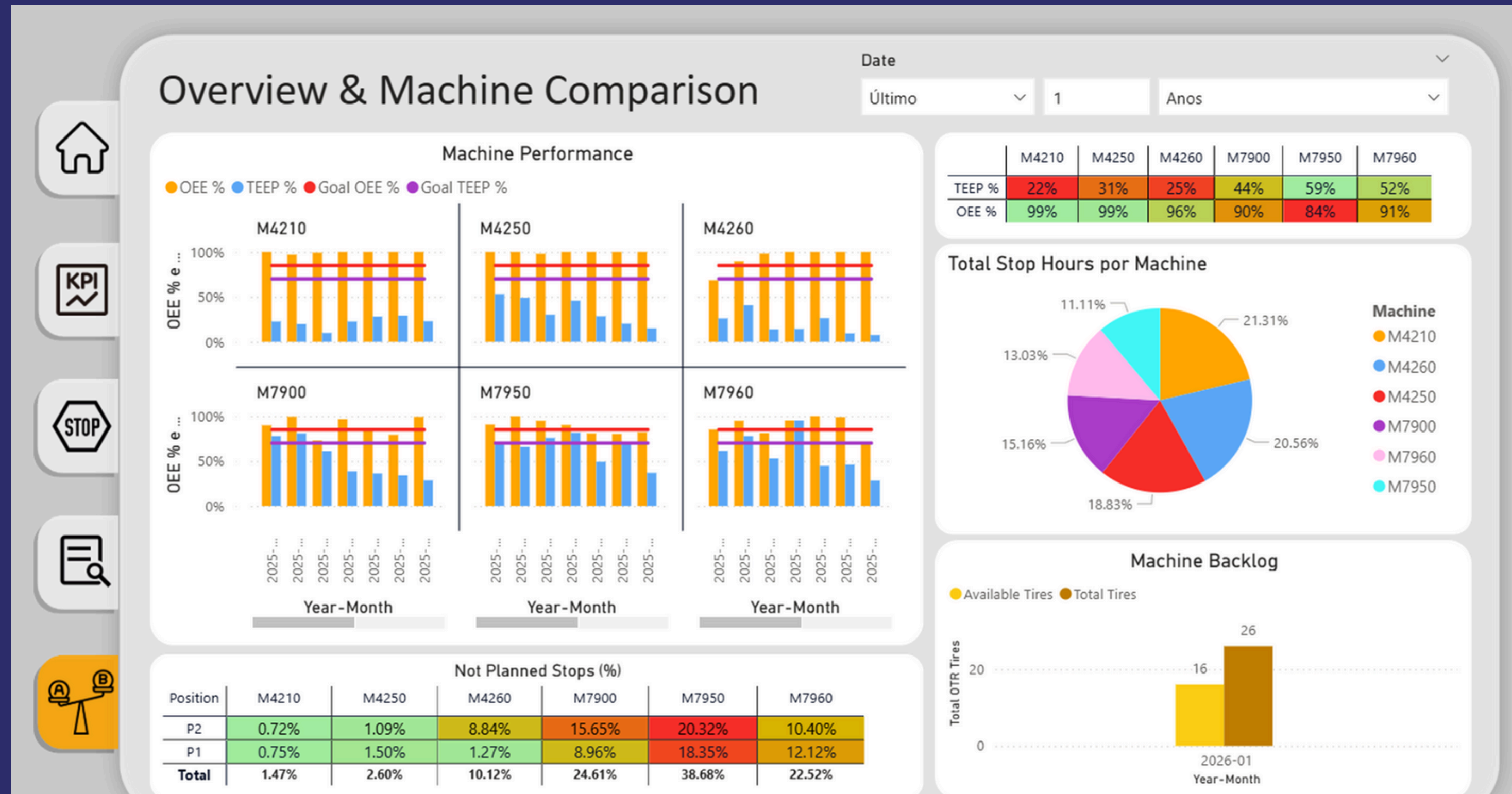
Note: Dashboards use demo data for confidentiality.

Visual



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Visual



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Project 2 — Sales Analytics & Forecasting Dashboard (Python)



Goal:

Analyse large sales datasets and identify the most accurate demand forecasting approach to improve prediction reliability and support planning decisions.



What I built:

- Built a Python dashboard to explore sales time series across product families and SKUs with interactive filters and aggregation levels.
- Performed demand classification (e.g., ABC/XYZ logic) to segment products based on volume and variability.
- Tested and compared forecasting methods to improve accuracy, including time-series models and performance tracking.



Outcome:

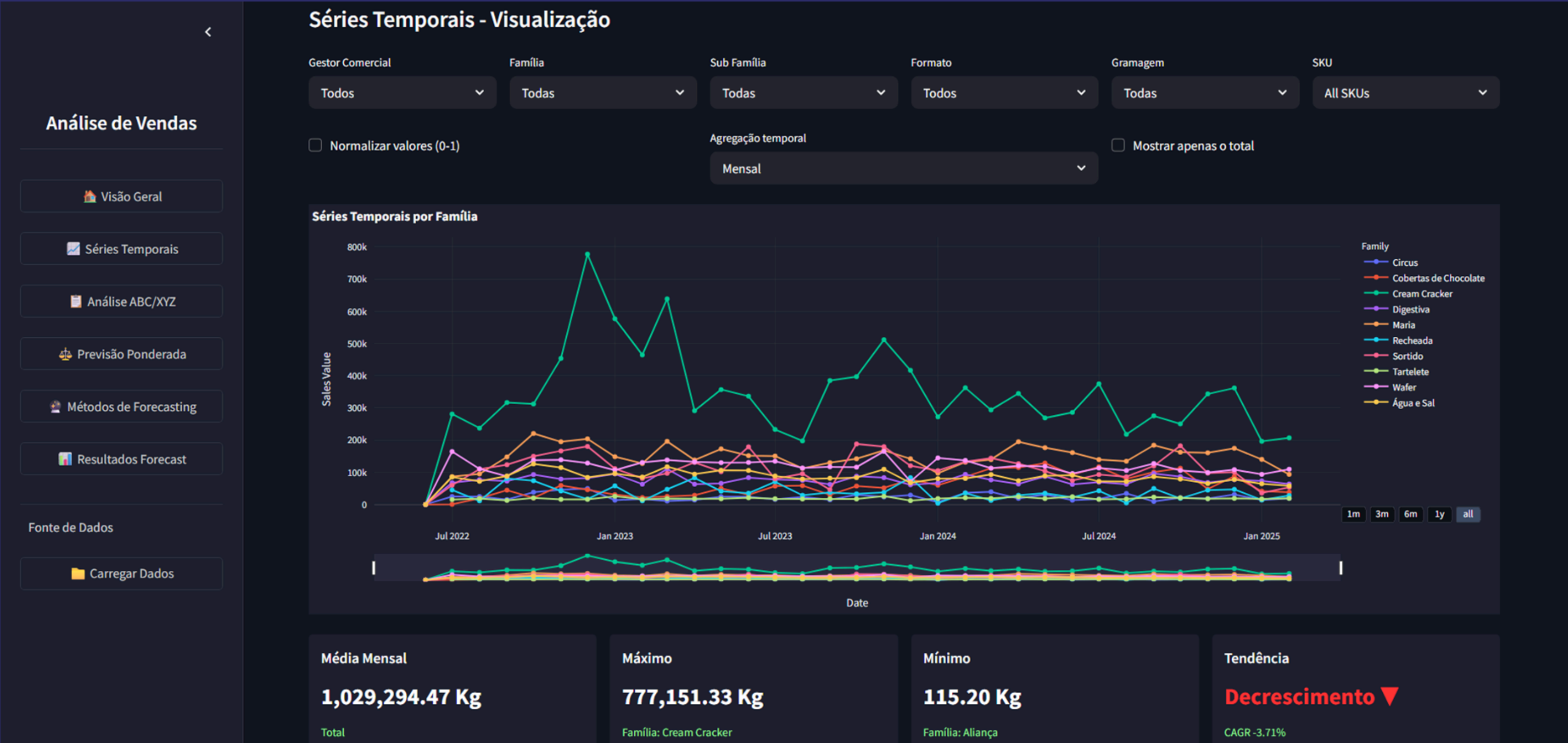
Provided data-driven recommendations for selecting forecasting methods based on demand behaviour and measurable accuracy metrics.



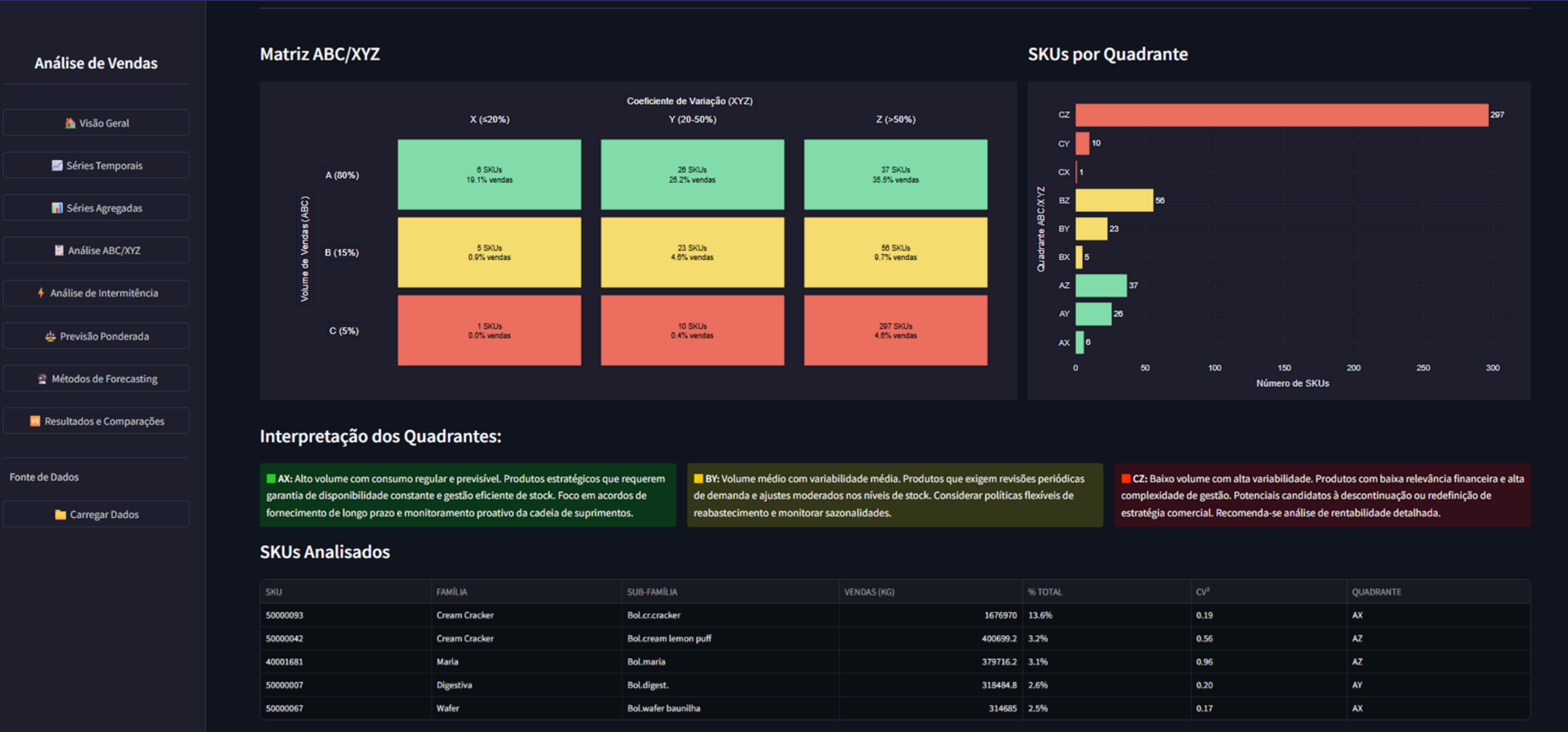
Tools:

Python (pandas, numpy, scikit-learn, statsmodels, matplotlib/plotly)

Visual



Visual





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Let's connect



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