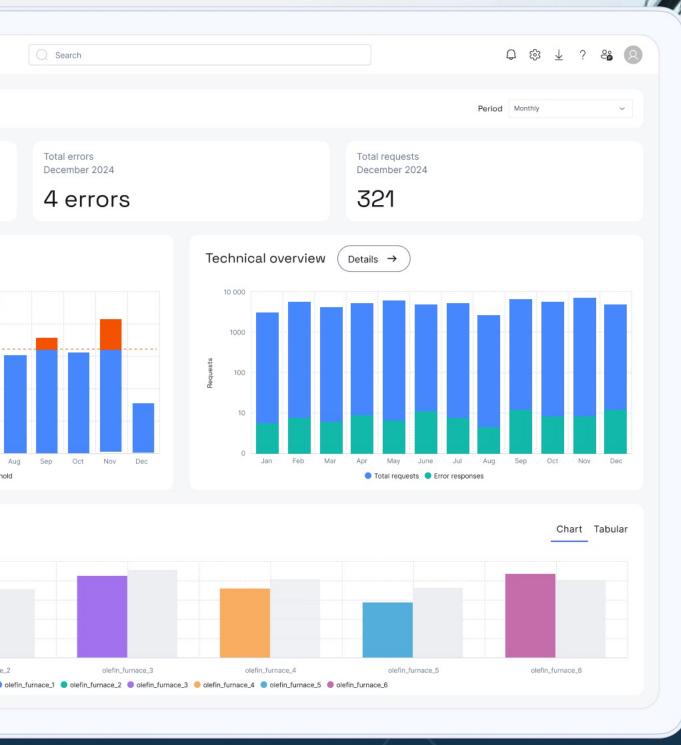
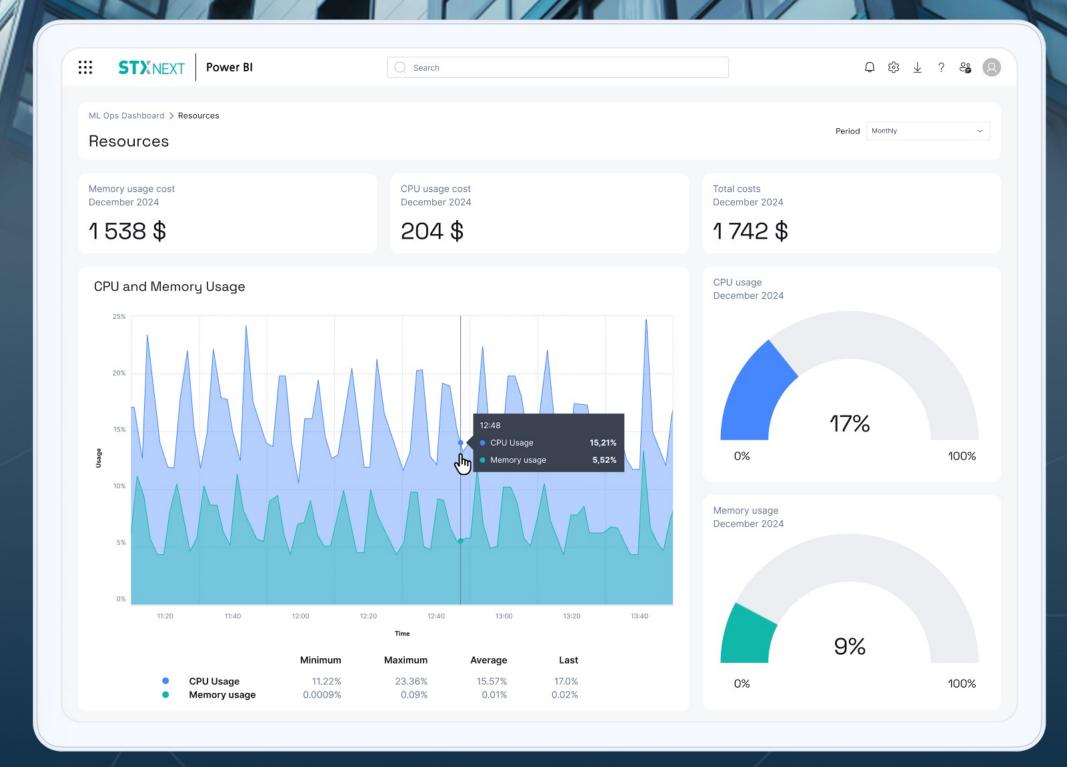
STX Next • 2025 • Product Design Team

Data Engineering

Supercharging ML Ops insights with customized Power Bl Dashboard







Navigating Power Bl

MAIN OBJECTIVE

Leveraging Power BI's capabilities while providing designers with flexible tools to customize and adapt.

Knowing the Power BI framework was crucial. By diving into documentation to comprehend its functionality, focusing especially on the customization of themes. This foundational knowledge allowed integrating Power BI's capabilities seamlessly into our design process.

What is Power BI?

図 OVERVIEW

Vhat is Power BI?

What is Power BI Desktop?

What is the Power BI service?

Comparing Power BI Desktop and the

What's new?

■ CONCEPT

/hat's new in Power BI?

ne new experience in the Power Bl Prvice

The new Format pane in Power Bl Desktop

Get started with Learn

図 TRAINING

Create and use analytics reports

Get data with Power BI Desktop

Lic

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Limited Customization Options



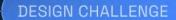
Predefined visuals with sparse set of personalization options.



Layout control that highly restricts alignment and spacing.



Narrow branding possibilities caused by limited choices of fonts and styles.



User Experience Issues



Performance problems with large or complex reports that may lag.



While interactivity is a strength, excessive use (e.g., too many slicers or drill-throughs) can confuse users without clear guidance.



Linear navigation which makes storytelling or presenting data difficult. Users may find navigating complex reports challenging.



A Strategic Approach to Data Visualization

As organizations strive to harness the full potential of their data-driven strategies, building intuitive and insightful dashboards plays a crucial role in facilitating informed decision-making.

DESIGN PRINCIPLES

By aligning our approach with industry standards and innovative methodologies, we aimed to create a tool that not only enhances operational efficiency but also empowers stakeholders with actionable insights.

During this process we leveraged the best practices of data visualization and dashboard construction.



KEEP IT SIMPLE

Less visual elements, black background



DESIGN FOR A TARGET

You need to define the goal of the dashboard



BE CONSISTENT

If the chart is the right one use it and don't look for another one just to make dashboard more "interesting"



HIGHLIGHT WHAT'S IMPORTANT

Not all the numbers are the same. There are always some data that is more important



PICK THE RIGHT CHARTS

Choose the right visualisation



BE CLEAR

Add legend, explain what you're showing



CHOOSE THE RIGHT COLORS

We don't see colors in the same way.



BE CONSISTENT

Use uniform design elements and a cohesive layout for easy navigation and consistent visual hierarchy



HIGHLIGHT WHAT'S IMPORTANT

Highlight key data points to clearly show trends and relationships



BE CLEAR

Emphasize key insights for quick recognition

Be consistent

Uniform design elements

Consistency in dashboards means aligning:

- font styles,
- colors,
- layouts,
- formats across visualizations and elements.

This not only prevents user confusion but also makes the interface intuitive and easy to navigate. For example, keeping similar colors for related data categories or using the same alignment for all charts can guide users' attention efficiently, making information easier to locate and interpret.

This approach contributes to a polished, professional look, enhancing readability and user satisfaction by eliminating unnecessary distractions or inconsistencies.

Align elements to cohesive and intuitive layout

We don't want to show all, only the most important information. Quick overview.

Dashboard should prioritize providing a high-level overview with key metrics and insights rather than in-depth detail.

For dashboards to achieve this level of functionality you need to highlight the need for:

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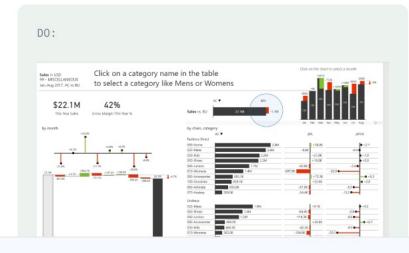
tuitive visual hierarchy,

inimal clutter,

sy access to relevant summaries,

te reports, which can be more data-heavy and granular, dashboards focus on presenting the most essential information in a way that allows users to kly understand trends, track performance, and make decisions based on key metrics. This approach allows for efficient monitoring and encourages to delve into specific reports if further detail is needed, ensuring dashboards remain streamlined and actionable.







PICK THE RIGHT CHARTS

Choose charts that align with the data pattern and analysis goals



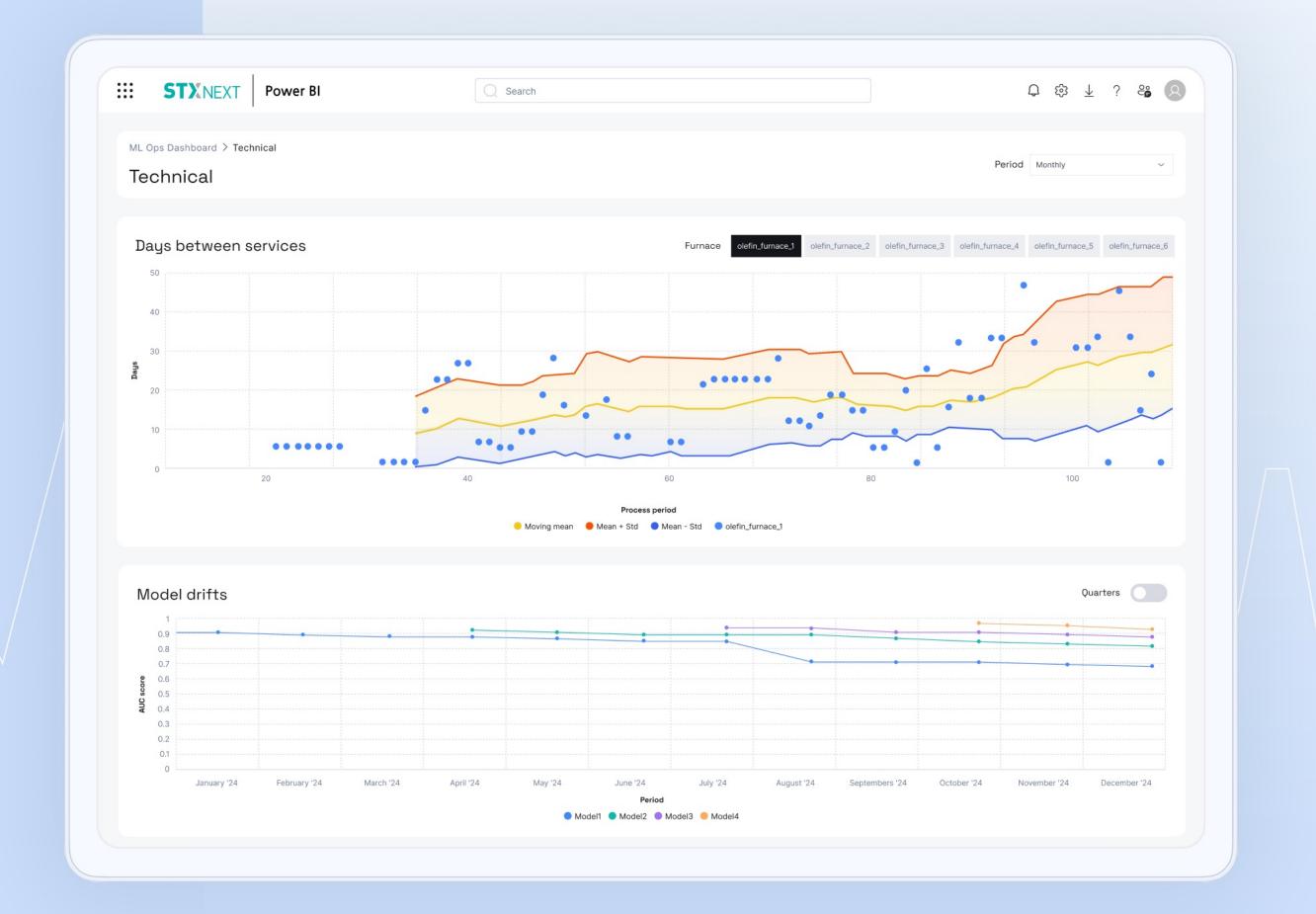
CHOOSE THE RIGHT COLORS

Select an accessible color palette that conveys the message effectively, including for users with color vision deficiencies



DESIGN FOR A TARGET

Structure data and choose relevant visualizations to align with user tasks and needs, ensuring the dashboard supports decision-making effectively



Streamlining Implementation

DELIVERABLES

This crucial phase requires precise communication to ensure that the design vision is faithfully translated into a functional product.

In our project, we created a comprehensive Figma handoff file which meticulously structured variables that mirror the structure of JSON files used to create custom themes in Power BI.



DESIGN HANDOFF

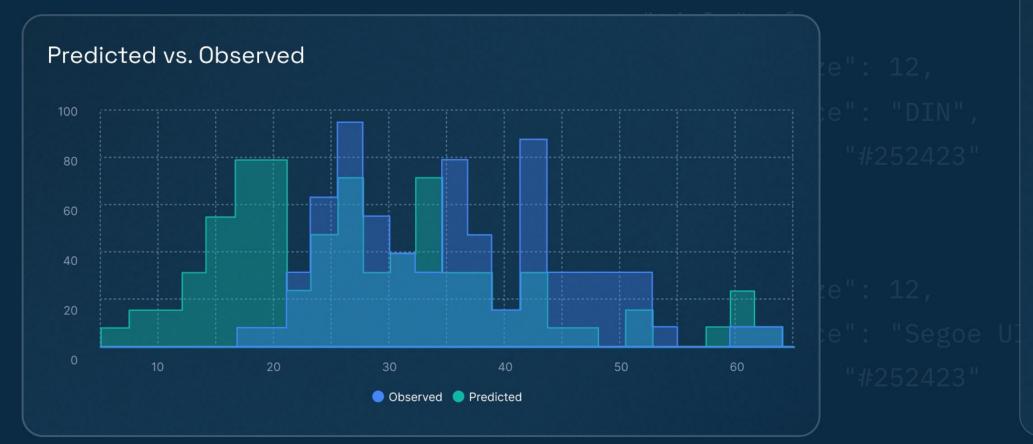
Collection of essential Power Bl visuals



DESIGN HANDOFF

Documentation

```
"name": "Custom Theme",
"textClasses": {
    "callout": {
        "fontSize": 45,
        "fontFace": "DIN",
        "color": "#252423'
},
```



Primary class	Secondary classes	JSON class name	Default settin
Callout	N/A	callout	DIN #252423 45 pt
Header	N/A	header	Segoe UI Semib #252423 12 pt
Title		title	DIN #252423 12 pt
	Large title	largeTitle	14 pt
Label		label	Segoe UI #252423 10 pt
		semiboldLabel	Segoe UI Semib
		largeLabel	12 pt

