

## Project Rubric

### Section 5: Data Storytelling

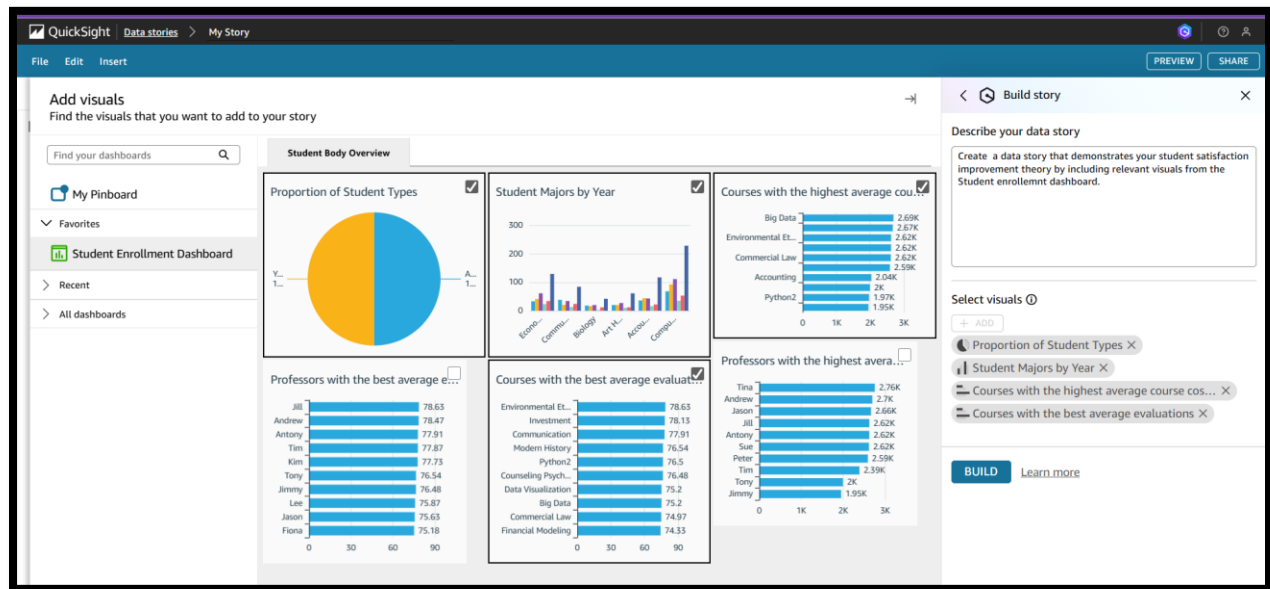


Figure 1 Creating the data story by giving a prompt and adding some relevant visuals from Student Enrollment Dashboard

## Introduction - Beyond Satisfaction

Student satisfaction metrics provide critical insights into the effectiveness of our academic programs and overall educational experience. By leveraging our comprehensive enrollment dashboard data, we can identify patterns and correlations that illuminate the path to enhanced student success. This data-driven approach allows us to make strategic decisions about program development, resource allocation, and student support services that directly impact satisfaction levels across our academic community.



Figure 2 Adding a block and inserting an image

## Success Indicators

- Student satisfaction is influenced by multiple factors in educational programs
- Course accessibility is a critical component of student experience
- Career preparation plays a significant role in student satisfaction
- Professional opportunities are important for student engagement
- Flexible scheduling can enhance student learning experience
- Strong industry connections contribute to educational value
- Internship programs are key to bridging academic learning and professional development
- The primary objective is to maximize educational value and return on investment

Figure 3 Changed the Auto generated paragraph to bullet points using edit narrative q option

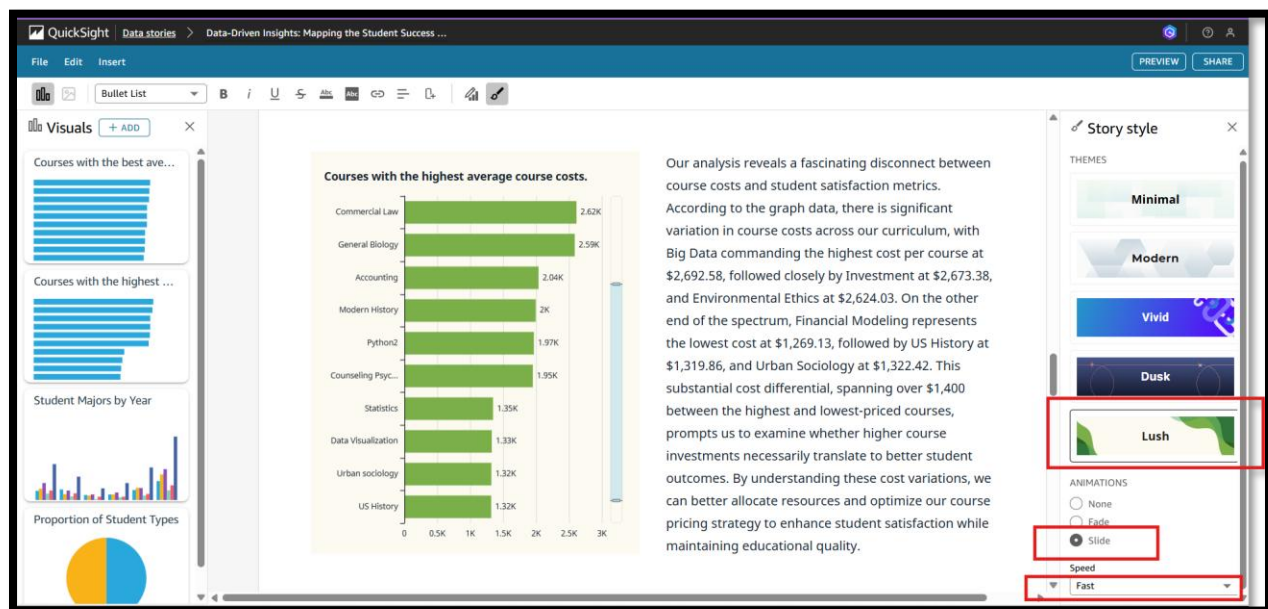


Figure 4 Changing the theme of the story to Lush and adding some animations along with speed

# Data-Driven Insights: Mapping the Student Success Journey

Prepared by Nandini Rajaram

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*Figure 5 Changed the story cover style and updated the Prepared by with my name*

## Data-Driven Insights: Mapping the Student Success Journey

Prepared by Nandini Rajaram

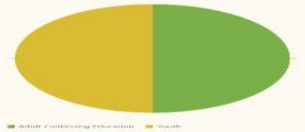
### Introduction - Beyond Satisfaction

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### Our Student Landscape

Proportion of Student Types



Understanding our student composition is fundamental to developing effective satisfaction improvement strategies. The pie chart visualization of student types provides an essential foundation for our analysis, offering a clear snapshot of how our student body is distributed across different categories. By examining this proportional breakdown, we can better align our resources and interventions with the specific needs of each student segment, ensuring targeted approaches that resonate with distinct student populations. A thorough review of this demographic data is recommended to identify potential correlations between student types and satisfaction levels, which could inform our improvement initiatives. This baseline understanding will serve as a cornerstone for the subsequent analyses presented in our program evolution and satisfaction metrics discussions.

### Program Evolution

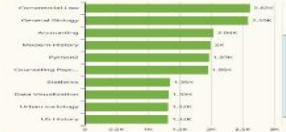
Student Majors by Year



The vertical bar graph displaying Student Majors by Year serves as a powerful visual tool to illustrate the dynamic shifts in academic program preferences over time. This visualization enables us to track enrollment insights into which programs are gaining momentum and which may require strategic attention. By analyzing these year-over-year changes, we can better understand the evolving academic landscape and make data-informed decisions about resource allocation and program development. A thorough review of this graph is recommended to identify specific trends, such as emerging fields of study and declining majors, which will help inform our student satisfaction improvement initiatives. This analysis aligns with our broader objective of enhancing the student experience by ensuring our academic offerings remain relevant and responsive to changing student interests.

### Investment vs. Satisfaction

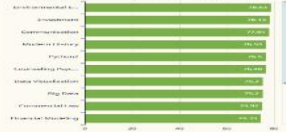
Courses with the highest average course costs



Our analysis reveals a fascinating disconnect between course costs and student satisfaction metrics. According to the graph data, there is significant variation in course costs across our curriculum, with Big Data commanding the highest cost per course at \$2,692.58, followed closely by Investment at \$2,673.38, and Environmental Ethics at \$2,624.03. On the other end of the spectrum, Financial Modeling represents the lowest cost at \$1,269.13, followed by US History at \$1,319.86, and Urban Sociology at \$1,322.62. This substantial cost differential, spanning over \$1,400 between the highest and lowest priced courses, prompts us to examine whether higher course investments necessarily translate to better student outcomes. By understanding these cost variations, we can better allocate resources and optimize our course pricing strategy to enhance student satisfaction while maintaining educational quality.

### Excellence in Education

Courses with the best average evaluations



Our analysis of course evaluation scores reveals distinct patterns in student satisfaction across different subjects. According to the graph data, courses in Environmental Ethics, Investment, and Communication consistently achieve the highest evaluation scores, with averages of 78.65, 78.13, and 77.91 respectively. In contrast, courses like Statistics, US History, and Urban Sociology receive lower satisfaction ratings, with scores ranging from 73.51 to 73.61. This clear differentiation in evaluation scores suggests that certain pedagogical approaches and subject matter presentations are more effective at engaging students and delivering value. By examining the characteristics of our top-performing courses, we can identify and replicate successful teaching methodologies across all academic offerings to enhance overall student satisfaction.

### The Value-Score Matrix

The Value-Score Matrix introduces a revolutionary framework for evaluating course effectiveness by examining the relationship between student satisfaction ratings and educational resource investments. This innovative assessment tool enables administrators to identify courses that deliver exceptional student experiences while maintaining cost efficiency, as well as pinpoint areas requiring strategic intervention. By mapping these critical variables, institutions can make informed decisions about resource allocation and implement targeted improvements across their academic offerings.

### Major Migration Patterns

The Program Popularity Tracking System visualizes the flow of students between academic majors throughout their educational journey. By monitoring these academic migration patterns, we can proactively allocate resources and identify opportunities for program enhancement. This innovative tool enables academic administrators to make data-driven decisions about curriculum development, faculty allocation, and support services based on evolving student preferences.

### Success Indicators

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### Implementation Strategy

Our strategic implementation plan introduces a comprehensive pilot program designed to revolutionize student satisfaction measurement across selected academic departments. The initiative leverages advanced data framework to establish clear benchmarks while gathering real-time feedback through integrated assessment tools. This phased rollout allows for systematic data collection and immediate adjustments, ensuring optimal outcomes before campus-wide deployment.

### Conclusion - Transforming Data Into Action

Our comprehensive analysis reveals that student satisfaction directly correlates with strategic program development, continuous assessment, and clear value demonstration across academic offerings. By implementing data-driven decision-making processes and leveraging our new Value-Score Matrix, institutions can systematically enhance the educational experience while monitoring program effectiveness. The proposed pilot program provides a framework to transform these insights into measurable improvements in student success metrics and overall satisfaction levels.