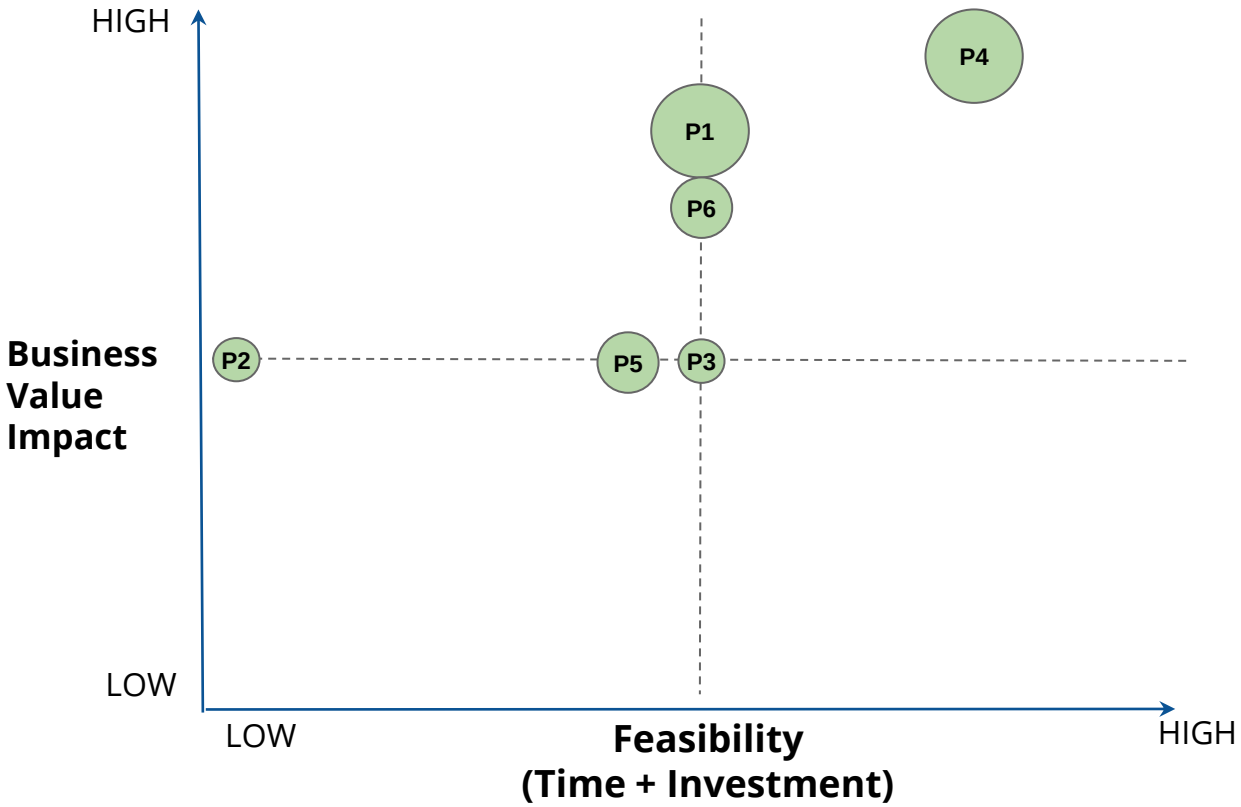
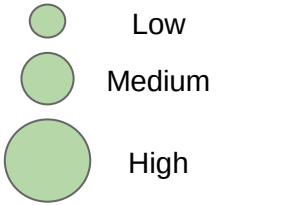
Step 2, Part 2: Complete the "Data Science Opportunity Matrix" below by modeling each of the six projects in terms of feasibility (time & investment), business value impact, and likelihood of value capture



Project 1: Potential restaurant and customer Identification
Project 2: Digital assistant
Project 3: Growth Prediction for the company
Project 4: Restaurant industry insights and statistics
Project 5: Supply chain optimization
Project 6: Eligibility score for financial programs

Likelihood of Value Capture



Foodics

Eligibility score for financial programs

Omar Al Khathlan
Data Scientist Leader

28/01/2023

Executive Summary

Purpose of 100-day plan

- Identifing data science opportunities
- Opportunities into roadmap
- Data and Data Architecture strtategy
- Machine learning strategy

Approach

- Iterative approach
- Getting user feedback often

Results

- Human Capital Strategy
- Data and Machine Learning infatstructure
- Data-Driven Culture Strategy
- Opportunities Roadmap

Scope of Work for First 100 Days

- Build out of data science team.
- Project 4: Restaurant industry insights and statistics.
- Project 1: Potential restaurant and customer Identification.
- Establishment of data-driven culture.

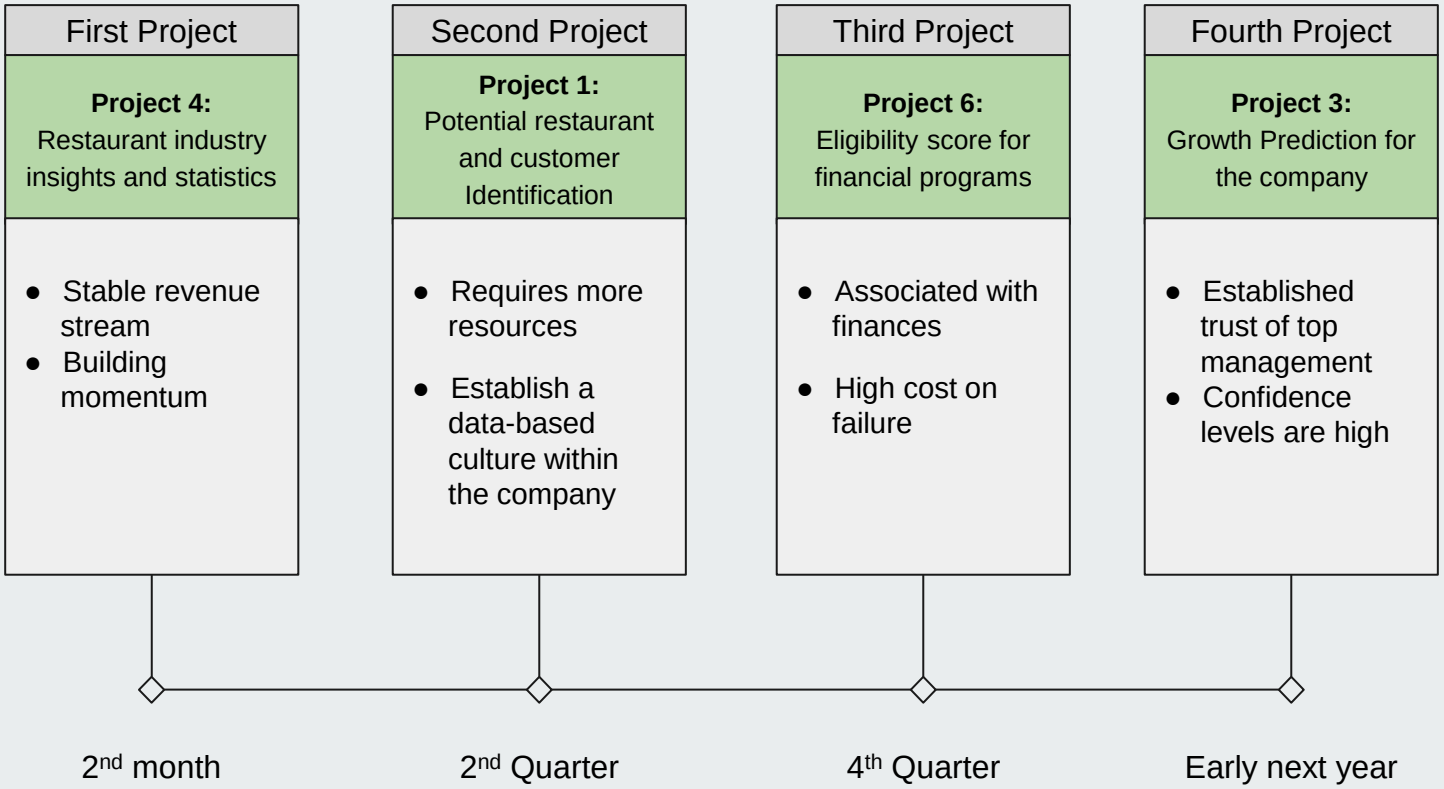
Candidate Data Science Projects

	Functional Area	Project Description
Project 1: Potential restaurant and customer Identification	marketing	Automatic generation of marketing leads.
Project 2: Digital assistant	product	Creation of new future growth opportunities for the company through new products into different sectors.
Project 3: Growth Prediction for the company	finance	Prediction of the company's growth based on current trajectories.
Project 4: Restaurant industry insights and statistics	product	Prediction of the what the market is like now and what is it likely to look like in the future.
Project 5: Supply chain optimization	supply chain	Prediction of inventory needs based on supply and demand.
Project 6: Eligibility score for financial programs	finance	Eligibility evaluation of a costumer to apply for a financial programs.

Step 2, Part 3: Complete the “Data Science Road Map” below with the first four data science projects chosen for implementation.

Order	Project	Order Justification
1	**Project 4:** Restaurant industry insights and statistics	This will be an easy first project that will provide a stable revenue stream that will allow us to carry over our momentum to the next project.
2	**Project 1:** Potential restaurant and customer Identification	This project requires more resources but will allow us to establish a data-based culture within the company after the success of the project.
3	**Project 6:** Eligibility score for financial programs	This project be placed third since it is directly associated with finances, which has a high cost on failure.
4	**Project 3:** Growth Prediction for the company	This project will be great after the trust of top management has been established and confidence levels are high.

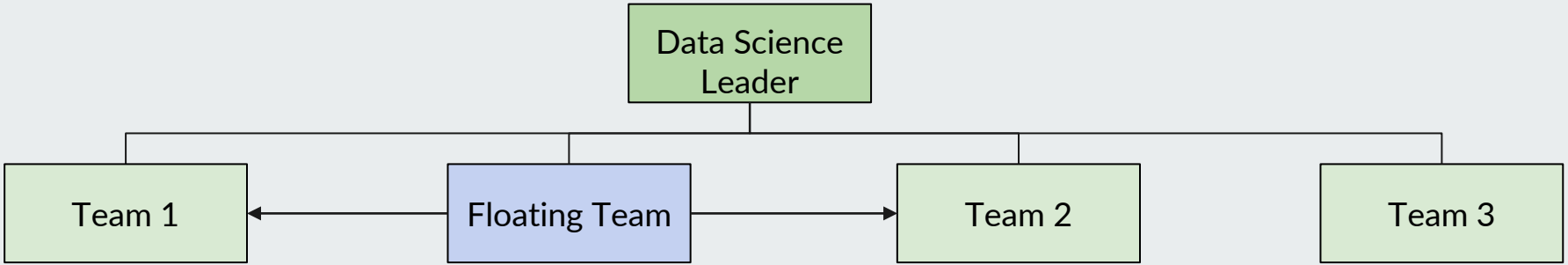
Step 2, Part 3: Complete the “Data Science Road Map” below with the first four data science projects chosen for implementation.



Our Highest-Priority Data Science Projects

Order		Direct Alignment with Strategic Goals?	Cost	Complexity of Implementation	Certainty of Value Capture	Magnitude of Benefit
		1=Low; 5=High	1=High; 5=Low	1=High; 5=Low	1=Low; 5=High	1=Small; 5=Large
First	**Project 4: Restaurant industry insights and statistics**	5	4	4	5	5
Second	**Project 1: Potential restaurant and customer Identification**	5	3	3	4	4

Initial Structure of the Data Science Team



- Data Scientist
- Data Scientist
- Machine Learning Engineer

- Data Engineer
- Data Visualization Engineer

- Data Scientist
- Data Scientist
- Machine Learning Engineer

- Full-Stack Developer
- Back-End Developer

I have identified six strategies for promoting a data-driven culture in our business

Strategies for promoting a data-driven culture

Strategy 1: Ensure that top management is on-board for a data-driven culture.

Strategy 2: Ensuring that everyone has basic data-access.

Strategy 3: Starting the habit of explaining analytical choices.

Strategy 4: Quantifying uncertainty.

Strategy 5: Choosing metrics with care.

Strategy 6: Encourage data scientists to innovate and start initiatives.

Technical Infrastructure Needed to Support the Data Science Organization

Data Requirements	What data should be included in the Data Strategy?	- Single data warehouse - ETL from cloud-based data stores - Relational data store
Data Governance	Data Availability	- Data available to all employees - Announcement of new dataset integrations - Allow dataset requests for unavailable datasets
	Usability	- A dictionary of the available data - Tags for easier searchability - A meta store alongside the data store
	Integrity	- Regular check-ups on datasets - Reporting of issues by consumers of data - Data quality scores - Tracing of data - Regular scheduled back-ups of data
	Security	- Training of employees - Firewalls - Encryption of data while moving - Masking of user information

Technical Infrastructure Needed to Support the Data Science Organization

Technology	Data Architecture Components	- A data store that is the single source of truth - Access through SQL queries or BI applications - Access through APIs that expose information of the data store
Skills and Capacity	Data literacy skills and organizational capacity	- Just in time training - Publishing data updates to the whole company - Rewarding successful data-driven projects - Promote data exploration and experiments that use the available data
Support for Machine Learning	Machine learning architecture	- POC on local - Transition to cloud - API endpoints for access to ML models
Technology	Data Architecture Components	- A data store that is the single source of truth - Access through SQL queries or BI applications - Access through APIs that expose information of the data store
Skills and Capacity	Data literacy skills and organizational capacity	- Just in time training - Publishing data updates to the whole company - Rewarding successful data-driven projects - Promote data exploration and experiments that use the available data