



Cygnets **Infotech**
IT is about you

Point of Sales Predictive Solution

Assisting Reduction in Food
Wastage at Various Events

Cygnets Infotech

+1-609-245-0971

inquiry@cygnetsinfotech.com

www.cygnetsinfotech.com

Client Profile

Our client is a leading analytics company based in the US who caters in selling point of sales solution to different industries belonging to different sectors. Their main motto was to deliver solutions that provides smart insights from the trends and generates maximum revenue from the solution. Developing powerful analytical models yet flexible enough for businesses to plug and play their custom algorithms was their niche motive.

Business Scenario

Our client faced a huge challenge in developing a point of sales solution for an event and catering company who incurred huge losses due to food wastage. The problem was to decide the amount of food consumption to the number of people attending the event. The ratio was always a problem. A solution was required to be prepared that considered:

- Solution that improved planning and forecasting
- Type of food consumed based on event and weather
- Solution which could predict food requirement at various events
- Pre-built Dashboards to achieve visibility
- Easy integration of the solution with web portal and mobile apps



**GAIN IMMEDIATE INSIGHTS
THAT DRIVES BUSINESS
AND GENERATE MAXIMUM
REVENUE**

**REDUCE CHRONIC PROBLEM
OF FOOD WASTAGE AT
VARIOUS EVENTS THROUGH
POINT-OF- SALES
PREDICTIVE SOLUTION**

Cygnets Solution

During the initial analysis phase, Team Cygnets identified and understood the operations of the event management company, analyzed food counters to gain deeper insights into the processes. Cygnets also looked into the historical data to understand the trends and analytics of the consumption patterns. Based on the trends, Cygnets created a robust, rapid business model.



Features considered to create algorithms for training the model were:



Number of tickets sold in past



Weather



Type of Event



Duration of Event



Stadium/ Wing capacity



Location of the Wing



Total tickets sold till now



Age Group



Food ordered along with tickets

A well-constructed algorithm for solution helped event and catering company provide much needed insights that could help their business make more strategic and informed decisions. Algorithms were generated that made data patterns clear through data visualization.

Through the Linear Regression and Decision Tree Algorithm, a predictive solution was created that:

- Predicted food usage and food wastage
- Predicted future orders on the basis of the location using predictive model
- Input real-time data into the solution to arrive at more precise predictions of food requirements
- Pre-built dashboards, reports, and custom analysis that evaluated business performance
- Web Sync API made accurate estimates of the food at regular intervals that were helpful for the food stall keepers

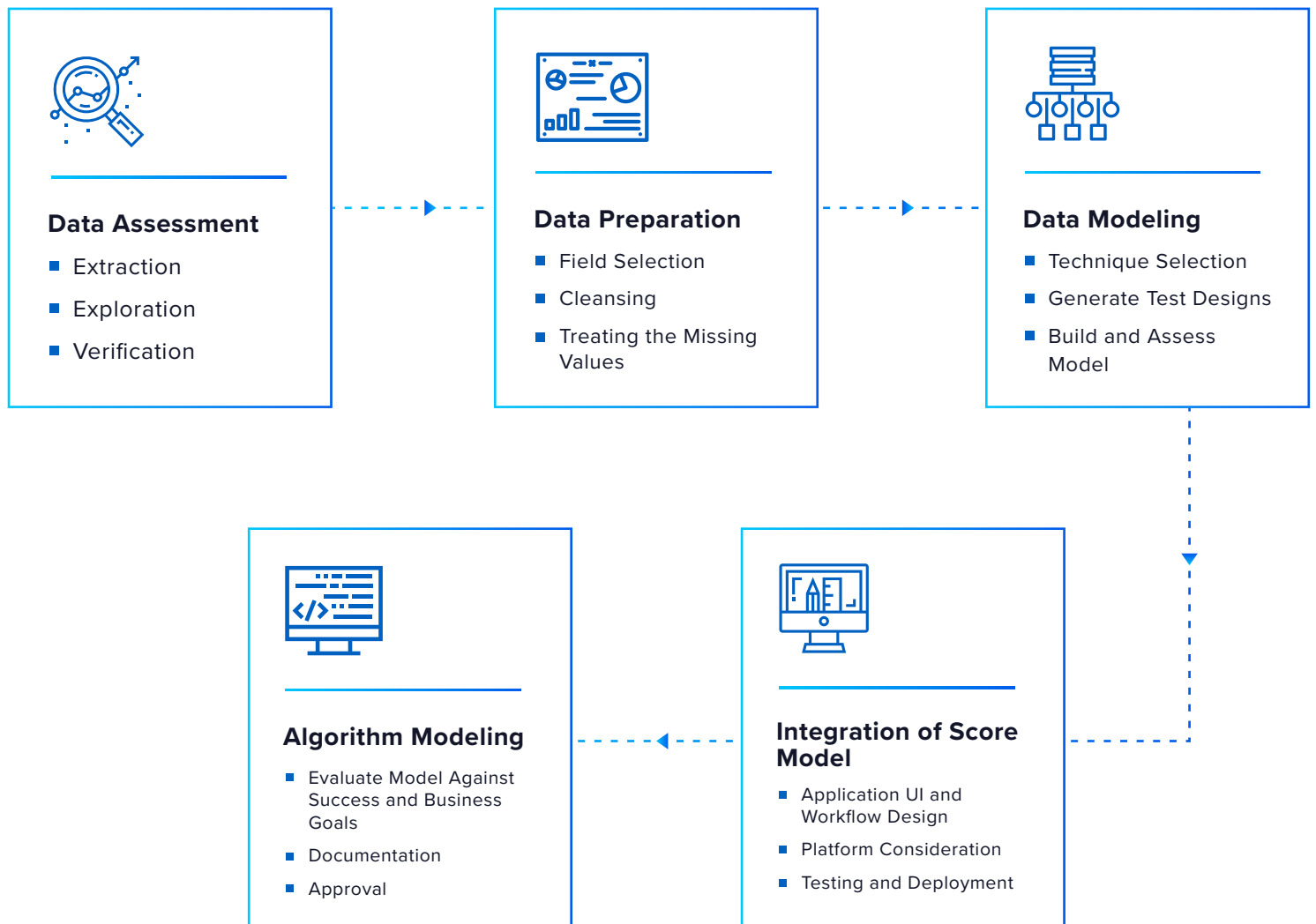
Benefits to the Client

- Ready Solution to integrate with Web portal and Mobile applications of Food stallers
- Automated POS solution
- No licensing costs
- Easy setup and no maintenance

Benefits to End-users

- Helps give better insights with automated decision making
- Prediction accuracy is more than 96.45%
- Solution accuracy that is helpful to stop food wastage

Algorithm is developed from the accumulated data by:



Technology Stack



About Cygnet

Cygnet Infotech is one of the most trusted names in the IT space delivering technology solutions to global clients across 35 countries. Born out of a vision to create software development company where quality, innovation and personalized services trump low cost, makeshift solution, Cygnet partners with its client to help them transform in to high performance businesses.

Cygnet has deep industry and business process expertise, global resources and a proven track record in delivering innovative technology solutions. Cygnet can mobilize the right people, skills and technologies that improves business performance.

Contact Us

US OFFICE

Cygnet Infotech LLC.
125 Village Boulevard,
Suite 315,
Princeton, NJ 08540

☎ +1-609-245-0971
+1-609-533-8393

INDIA

Cygnet Infotech Pvt. Ltd.
16-Swastik Society,
Nr. AMCO Bank, Stadium Circle,
Navrangpura, Ahmedabad 380009

☎ +91-79-67124000
✉ inquiry@cygnetinfotech.com

DUBAI

Cygnet Fintech Software
Unit 807, Ubor Tower 2,
Business Bay, Dubai,
UAE, PO Box No.: 418360

☎ +971 52 830 5127



Founded in 2000,
currently with offices
across 6 continents



900+ Employees
Delivered 2000+
Projects



18 Years of Experience
Serving 750+ clients
in 35 countries



95% Client Retention



Cygnet **Infotech**
IT is about you