Navya Network: ROI Analysis Tool Development
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Navya Cancer Data Model (NCDM)

Navya Cancer Data Model (NCDM) provided by Navya Network, Inc. leverages Artificial Intelligence and Machine Learning to automate and streamline workflows for the oncologists.

The NCDM summarizes hundreds of pages of unstructured patient data and medical records into a 2-page actionable “Case Summary”, so that Oncologists could save up to 90% of time to complete a record review and render an opinion in 4.8 minutes.

Project Description

Since the NCDM solution is not directly reimbursable from payers, it is integral that Navya illustrate the economic value and financial impact to healthcare providers in their busines development process. The MIT student team aims to develop a ROI Calculator that allows Navya to quantify and explain the values of the NCDM platform to relevant stakeholders, including C-level of hospitals, oncologists, patients, etc.

Our major methodologies include secondary research, comparable research, and expert interviews.

Project Outcome: ROI Calculator

Inputs: the calculator requires inputs of key hospital features and information from the calculator users (i.e., prospect customer of NCDM). Dummy numbers are put as an example based on MIT team's market research and interviews.

Outputs: the calculator produces an ROI analysis report that displays the investment costs and economic benefits identified for oncology customers of using NCDM.

Benefits of the NCDM

Through our market research and interviews, three major advantages for healthcare providers of using the NCDM tool are identified and quantified in the ROI Calculator:

- Top-line revenue growth generated by reviewing and treating more patients in less time
- Recruiting expenses saved by giving back leisure and improving oncologist retention rate
- Additional paper published by spending more time in research and experiments

From our interviewees:

- "Instead of trying to get doctors to see 1 additional patient per day, I think it will be helpful to keep 5 more doctors from quitting this year."
  - CMO, Moffit Cancer Center

- "Regarding oncologists’ time allocation: this would be appropriate for the right hospitals – not us since we are not research focused clinic."
  - CMO, BayCare

Use Case of the Calculator

Drive interested parties to the Navya website and allow for potential prospects to convert as leads on the website.

Quantify savings and additional revenue generated by Navya for clients, increasing the prospect’s desire to enter a tech acquisition.

Periodic customer success contacts will be made to ensure the solution is being utilized properly and bringing value.

Host Company: Navya Network, Inc.

Founded in 2010 in Cambridge, MA, Navya Network, Inc. targets to improve clinical and Informatics practice in cancer oncology and treatments.

Host Contacts:

- Tracy Robertson, Chief Growth and Impact Officer
- Joanna Brownstein, Chief Customer Success Officer