WWW.RESEARCHWIRE.IN

PATENT PORTFOLIO

4 MIN READ

CASE STUDY

NEED SEED ANALYSIS FOR AI IN THE MEDICAL DOMAIN

PATENT PORTFOLIO MANAGEMENT & MONETISATION

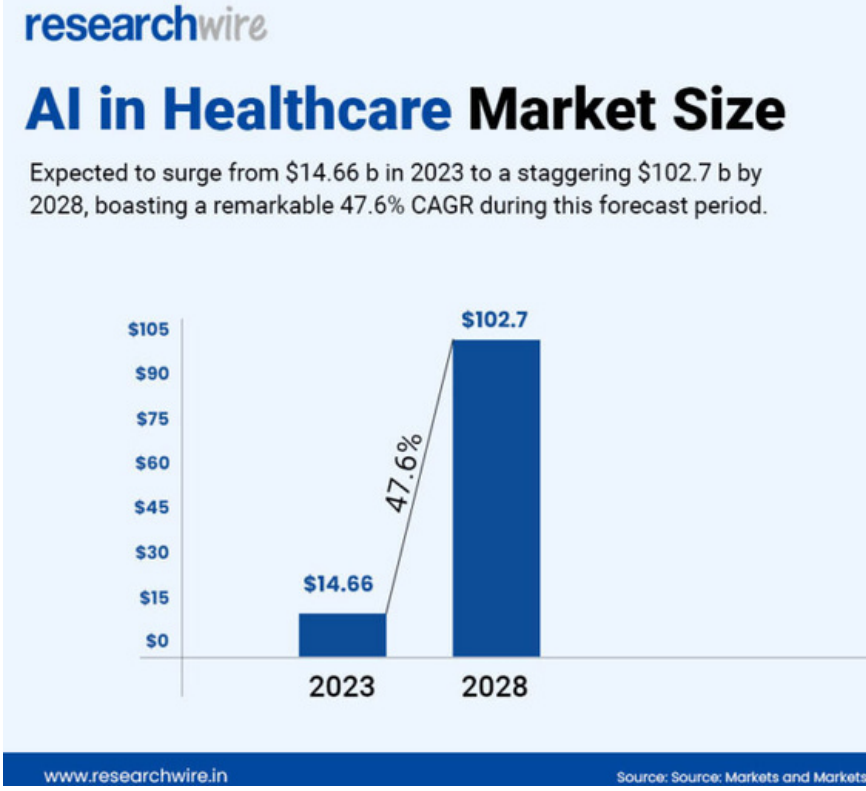
researchwire

NEED SEED ANALYSIS

In Seed vs Need Analysis, we strategically evaluate how developed technological elements (Seeds) align with customer needs (Needs). This process involves dividing customer needs into functions, prioritizing them, and comparing them with competitor technologies. The central tool is the Needs-Seeds matrix, revealing potential technology-application combinations.

Read more>

In the booming AI sector, AI is revolutionizing healthcare by streamlining tasks, cutting costs, and benefiting patients, doctors, and administrators. According to Markets and Markets, the AI in healthcare market is set for explosive growth, expected to surge from $14.66 billion in 2023 to a staggering $102.7 billion by 2028, boasting a remarkable 47.6% CAGR during this forecast period. This growth is driven by diverse healthcare AI applications, including medical records management, precision medicine, and health monitoring.system analysis.



CHALLENGE

To strategically utilize the client's developed AI technologies (seeds) in the field of healthcare.

The client possesses various advanced AI capabilities, including image classification, complex data analysis, and prediction algorithms. The objective is to identify the specific medical areas where these technologies can be effectively deployed to address customer needs and demands. Additionally, the project aims to determine the market demand for these AI-driven solutions in the medical domain.

SOLUTION

A comprehensive Need Seed Analysis was conducted. This involved dividing customer needs into various functions, enabling the prioritization of these functions. The analysis also correlated customer needs (functions) with the client's AI technologies (seeds) and examined pairs of technologies and healthcare applications. The analysis methodology comprises understanding client-provided documents, conducting general technology searches, selecting relevant keywords based on technology understanding, and searching for relevant patents and non-patent literature (NPL) to identify application areas. The workflow encompassed the identification of relevant technology literature using patent and NPL data, classifying application areas, and creating an application landscape.

RESULT

The study revealed several exemplary technology applications for the client's AI capabilities, including image classification for echocardiograms, automated skin cancer classification, heart attack prediction algorithms, prediction of suicide risk, prediction of death risk, complex data analysis for spotting DNA mutations in tumors, constant treatment calibration, and breast cancer risk assessment. Additionally, the analysis provided valuable insights into the medical domain's potential for utilizing AI capabilities and identified whitespace opportunities.

CONCLUSION

The Need Seed Analysis successfully identified key healthcare applications for the client's AI technologies, allowing for informed strategic decision-making. By understanding customer needs and aligning them with the client's technological strengths, the project provided a roadmap for potential market entry and product development. The next steps involve further analysis of the medical domain, support for new product development, freedom-to-operate (FTO) analysis, invalidity searches for high-risk patents, and the development of non-infringement arguments against these patents. This comprehensive approach positions the client to leverage their AI expertise effectively in the healthcare sector, where significant growth and demand are projected.