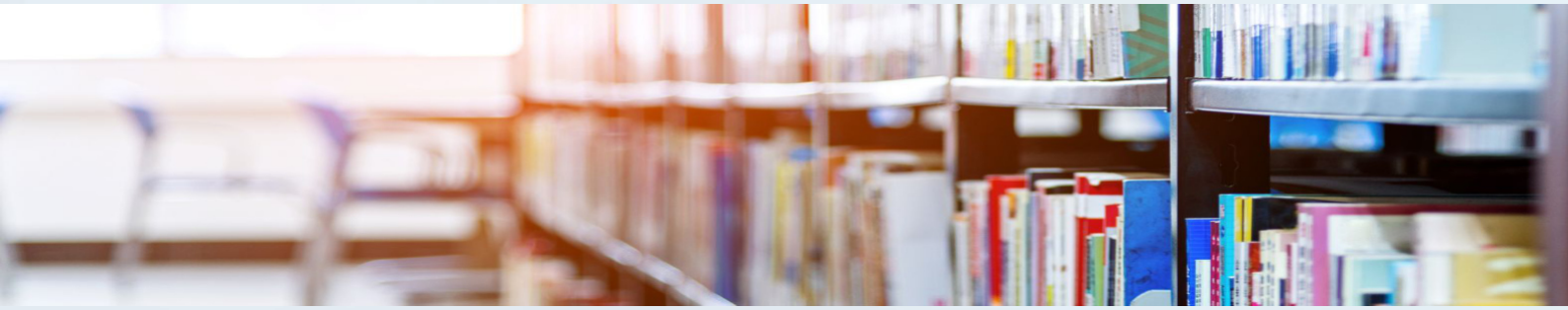
Iteration Inputs:

Important

- Precise, well-defined, short inputs yield more targeted, accurate and deployable results.
- Follow the best practices of iteration - that is the soul of good research.
- Please note that AI LLMs impose token limits, therefore, longer inputs may lead to shortened / truncated outputs.
- Embrace innovation: Think about how your research can inspire new solutions or perspectives in modern contexts while crafting your inputs. Caution: Garbage In Garbage Out (GIGO)

	Input Field Title	What Kind of Input is Needed?
Input 1	Tentative Research Problem Statement	This is a starting point for defining the specific issue or question your research will address. This is a raw, adaptable statement meant to be refined as and when you understand the topic more deeply. *For example, a draft statement might be, "Exploring how sedentary lifestyles are linked to obesity and subsequent heart attacks." (This example is used for the explanations throughout this document.)*
Input 2	Preliminary Research Questions	These are the initial, broad questions that aim to guide the early stages of your research. They help in narrowing down the focus and scope. *For instance, one might ask, "What are the primary ways sedentary lifestyles contribute to obesity and heart disease?"*
Input 3	Draft List of Keywords	These are the key terms that will be used to search for relevant literature. They should be closely related to the research problem and comprehensive enough to cover various aspects of the topic. *Keywords for this topic might include "sedentary lifestyle," "obesity," "cardiovascular disease," and "health risks."*
Input 4	Names of Databases & Search Engines	Identifying and having access to academic databases is crucial for an exhaustive literature review. *For the given topic, databases like PubMed, Google Scholar, and JSTOR might be used.*
Input 5	Scope of the Review (Geography/ Duration etc.)	Defining the geographical location and time frame for the study. *For instance, the scope might be IT professionals in urban settings over the last 10 years.*

	Input Field Title	What Kind of Input is Needed?
Input 6	List of Renowned Journals or Publications	You may provide the names of specific journals known for quality articles in the field of health, obesity, or cardiology, like "The Lancet" or "Journal of the American College of Cardiology."
Input 7	Preliminary Theoretical and Conceptual Ideas	Provide early-stage theories or concepts that might shape the study. *For this topic, theories on behavioral health or models of preventive healthcare might be relevant.*
Input 8	Existing Literature Reviews	Key in the reviews that provide a model for depth and breadth of analysis. *For obesity and heart attacks, reviews might focus on epidemiological studies or the impact of lifestyle changes.*
Input 9	Reference Management Software Tool	*Tools like Zotero or Mendeley help organize sources efficiently.* For a topic like this, it's crucial to track numerous studies and papers.
Input 10	Feedback from Experts	Results of consultation with medical professionals or researchers in the field of obesity and cardiovascular health to refine and validate the research approach.
Input 11	Initial Operational Definitions	Defining key terms like "sedentary lifestyle" and "obesity" in the context of how they will be measured and studied.
Input 12	Preliminary Statistical Techniques	Identify potential statistical methods like correlation or regression analysis to understand relationships between sedentariness, obesity, and heart attacks.
Input 13	Preliminary Quantitative Data Sets	Provide some early-stage data that might inform the study, perhaps prevalence rates of obesity or demographic data on heart attack incidents.
Input 14	Philosophical Frameworks	Provide the understanding the research under certain philosophical stands like positivism or interpretivism could shape the approach to studying lifestyle diseases.
Input 15	Previous Qualitative Approaches	Give insights from previous qualitative studies on lifestyle, health, and behavior that might inform the research design.

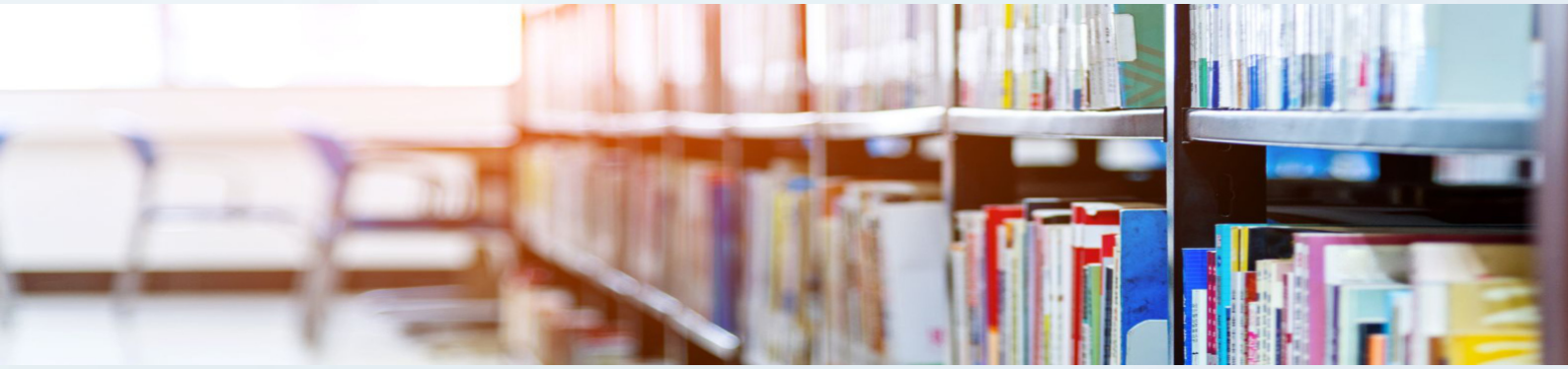


Iteration Outputs:

Important

- Generative AI is still in its infancy. Even though it has unimaginable potential, occasionally it can provide inaccurate results. Therefore, cross-check the crucial data and information that you publish in your name.
- Use Vigyana for augmenting your thinking, expanding your horizon and to generate ideas and reasoning, that are new and original. Then stitch these findings together in your own style so that you perfectly own your research.
- Follow the best practices of iteration. Always be thoughtful about your inputs, analyse your outputs, and then fine-tune/modify your inputs for better and better outputs, that lead to high-impact research.

	Output Button Title	What Do You Receive?
Output 1	**Synthesised Summary of Literature**	Here, you receive a cohesive, comprehensive overview of all the relevant literature reviewed, focused on elucidating the relationship between sedentary lifestyles, obesity, and heart disease. It serves to inform and direct the specific research questions and methodology.
Output 2	**Keyword Analysis**	Provides an analytical breakdown of key terms, showing how frequently and in what context the terms like "sedentary lifestyle," "obesity," and "cardiovascular diseases" appear in the literature, helping to refine search strategies and understand conceptual trends.
Output 3	**Research Problem Clarifications**	Based on the literature, this output refines and sharpens the research problem, perhaps narrowing down the focus to specific aspects of the relationship between lifestyle and heart health.
Output 4	**Methodological Mapping**	Identifies and summarizes the different research methods used in existing literature, providing a guide for potential approaches to study sedentary lifestyles and their health impacts.
Output 5	**Theoretical & Conceptual Frameworks Overview**	This gives an overview of the prevailing theories and models related to health, lifestyle, and disease, informing the conceptual underpinnings of the research.



	Output Button Title	What Do You Receive?
Output 6	Applied Contextual Understanding	Draws practical implications from the literature, suggesting how findings might be applied to interventions or policies aimed at reducing obesity and heart disease rates.
Output 7	Reference Trend Analysis	Identifies the most influential studies, authors, or journals in the field, highlighting foundational work and key findings relevant to sedentary lifestyles and health outcomes.
Output 8	Historical Progression Mapping	Provides a chronological account of how understanding and approaches to studying lifestyle and health have evolved, offering insights into emerging trends and shifts in thinking.
Output 9	Cross-disciplinary Insights	This involves extracting insights, theories, or methods from other fields that might offer innovative perspectives or solutions to understanding and addressing the issues related to sedentary lifestyles.
Output 10	Gap Identification	Pinpoints specific areas within the existing literature that lack sufficient research, offering a clear direction for new, valuable contributions to the field.
Output 11	Evaluation of Methodologies	Critically assesses the strengths and weaknesses of methodologies used in previous studies, guiding the selection or development of methods for new research.
Output 12	Theoretical & Conceptual Framework Analysis	Involves a deep dive into existing theories and concepts, assessing their applicability and potential for extension in studying the health impacts of sedentary lifestyles.
Output 13	Recommendation Engine	Based on identified gaps and existing methodologies, suggests potential approaches or areas of focus that could yield valuable insights into the research topic.
Output 14	Meta-Cognitive Reflection Questions	Encourages researchers to consider their own biases, assumptions, and areas needing further inquiry, fostering a more rigorous and reflective research process.
Output 15	Innovative Study Design Concepts	Proposes new or adapted research designs that could effectively explore the link between sedentary behavior, obesity, and heart disease, utilizing insights gleaned from the literature.

	Output Button Title	What Do You Receive?
Output 16	Evolving Literature Synthesis	Establishes a framework for continually integrating new research findings into the existing body of literature, ensuring the research remains current and comprehensive.
Output 17	Visualization Toolkit	Utilizes various visual tools to elucidate complex relationships and trends identified in the literature, aiding in comprehension and presentation of the research.
Output 18	Assumption Auditing	Critically examines and questions the assumptions underlying existing studies, promoting a more nuanced and accurate understanding of the research field.
Output 19	Heuristic Development	Develops simplified decision-making tools or heuristics based on the reviewed literature, aiding researchers in navigating the extensive body of work on health and lifestyle.
Output 20	Synthesis of Contrasting Views	Presents a balanced overview that places conflicting findings or perspectives in dialogue, encouraging comprehensive understanding and critical analysis.
Output 21	Predictive Insights for Future Research	Utilizes identified trends and patterns to predict and suggest potential future directions in research on sedentary lifestyles and health, guiding subsequent studies.

Developed with Pride by Espoir Technologies Private Limited, Near C-DAC Innovation Centre, Panchavati, Pashan, Pune-411008 MH India. Contact: i-max@i-max.org

https://i-max.org