

4th INTERNATIONAL CONFERENCE ON
**AI ML, DATA SCIENCE AND
 ROBOTICS**

NOVEMBER 28-29 | PORTO, PORTUGAL

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Exploring Chronic Illness Management through Multiple Perspectives: Insights from a Large Language Model Analysis of Patient Experiences

Abstract: Chronic illnesses profoundly affect quality of life. This study investigated how the impact arises not just from symptoms or disabilities but from the challenges in managing the illness. Thirty individuals with various chronic conditions were interviewed, and a Latent Lexical Model (LLM) analysis was applied to identify core themes in their experiences. A correlation analysis was used to select 10 themes that were distinct from one another for deeper exploration. These themes were grouped into content domains according to pre-defined criteria. The LLM analysis identified 46 unique themes that illustrated the participants' experiences, with correlation analysis highlighting clusters of related themes and others with minimal overlap. This enabled selection of 10 distinct themes for focused study. In conclusion, this data-driven LLM approach provides a comprehensive view of the unique challenges and adjustments faced by individuals managing chronic illnesses, offering insights that can enhance patient-centered care and support strategies.

Keywords: Chronic Illness, Language Model Analysis, Illness carrier

Biography: I am a growth-focused professional with a decade-long achievement record in the healthcare industry and extensive leadership experience. Professional focal points include treatment coordination, program management, operations management, patient care, human resource management, compliance, research and analysis, employee wellness, policy development, process optimization, and strategic planning. Delivering superior execution with maximum efficiency on the latter areas of expertise requires the utilization of effective communication and organizational skills and procedure analysis, project management, and resource allocation expertise. I take great pride in the highly competent teams I have built, and I have been teaching nursing students for over a decade now.