

4<sup>th</sup> INTERNATIONAL CONFERENCE ON  
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## Intelligent Task Prioritisation for Enhanced Project Management: A Multi-Board Approach

**Abstract:** In today's complex project environments, efficient task prioritisation has become essential to navigating the high volume of competing demands, limited resources, and rapidly shifting requirements. This survey paper reviews advancements in artificial intelligence (AI) for intelligent task prioritisation across multiple project boards, particularly in agile and hybrid project-management frameworks. AI applications, including machine learning (ML), natural language processing (NLP), and heuristic methods, enable more dynamic, responsive, and context-aware prioritisation of tasks within project boards such as Kanban and Scrum. This research examines the potential of artificial intelligence to streamline decision-making processes and enhance operational efficiency through data-informed task management, drawing upon contemporary scholarly works.

The analysis highlights several critical benefits of integrating AI-driven task prioritisation: enhanced resource allocation, reduction of bottlenecks, and improved alignment with strategic objectives. In addition, AI applications facilitate real-time adjustments to task sequencing, thus enabling project managers to make informed decisions based on predictive analytics and intelligent recommendations. Challenges in this domain include the need for high-quality data, risks associated with AI adoption, and complexity of integrating AI with existing project management software. Moreover, the review addresses ethical considerations in automated task prioritisation, focusing on the impact on workforce dynamics and project stakeholder relationships.

Emerging approaches, such as the multi-board strategy, provide a holistic view of interdependent tasks across multiple projects and enhance overall coordination and visibility within project teams. This review consolidates research on the effectiveness of AI-powered task prioritisation, highlighting AI's capacity to revolutionise project management by enhancing workflow efficiency, predicting project results, and supporting informed decision-making processes. Future research directions are recommended to address data security, ethical implications, and the refinement of AI algorithms for adaptive, high-stake environments.

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**Biography:** Temitope Kadri is a seasoned Project Management Professional (MAPM, PRINCE2®) based in the United Kingdom, known for his expertise in Agile and Waterfall methodologies. With extensive experience in leading cross-functional teams, he has a proven track record in delivering high-impact projects across telecommunications, technology, and SaaS industries. Currently, Temitope serves as a Project Manager at Freshwave, where he oversees the implementation of connectivity infrastructure-as-a-service solutions, driving client satisfaction through optimised project delivery and strategic stakeholder management. His role involves minimising downtime, managing high-risk implementation, and fostering seamless collaboration between third-party suppliers and business stakeholders.

Temitope's career spanned various roles, including positions in Luti Media and Readrly Limited, where he led Agile-driven projects that enhanced team productivity and streamlined processes. His background also includes a focus on customer service and stakeholder engagement, having managed complex projects in Aggilis LM West Africa Limited and Real Projects Limited. Beyond his professional role, he actively contributes to social services as a Project Coordinator with the United African Association and Support Northamptonshire. An avid learner, Temitope, holds a master's degree in project management from the University of Northampton, a diploma in Product Management, and certifications in Azure Fundamentals, underscoring his commitment to continuous growth and excellence in his field.