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## **AI-Powered GST Analytics: Enhancing Taxpayer Experience and Policy Formulation**

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### **Abstract**

The integration of Artificial Intelligence (AI) in Goods and Services Tax (GST) analytics has the potential to transform the way tax systems are managed, offering significant improvements in both taxpayer experience and policy formulation. This research explores the role of AI in optimizing GST processes, focusing on how AI-driven analytics can streamline compliance, simplify complex tax calculations, and provide real-time, data-driven insights into tax data. By automating tedious tasks such as data reconciliation, anomaly detection, and audit processes, AI not only reduces the burden on taxpayers and tax authorities but also enhances the accuracy and efficiency of the entire tax system. Additionally, AI-powered tools enable better understanding of tax trends, identifying areas of non-compliance, and predicting future revenue collections, which can support policymakers in designing more effective, evidence-based, and responsive tax policies. This study also discusses the potential challenges and ethical considerations surrounding the use of AI in GST, including issues related to data privacy, algorithmic biases, transparency, and ensuring equitable access to AI-driven solutions across different sectors. Ultimately, AI-powered GST analytics promises a more efficient, transparent, and taxpayer-friendly tax environment while facilitating the creation of adaptive, future-ready tax policies that are aligned with economic realities.

