

# AI-Powered Code Debugging & Auto-Completion Using Transformer Models

**Rida Khan and Abres Siddique**

Students, Department MCA

Late Bhausaheb Hiray S S Trust's Hiray Institute of Computer Application, Mumbai, India

**Abstract:** *The advent of transformer models has revolutionized the field of natural language processing (NLP), and their application in code debugging and auto-completion is no exception. This research paper delves into the intricacies of using transformer models for AI-powered code debugging and auto-completion. We explore the underlying mechanisms, the benefits, the challenges, and the future prospects of this technology. The paper is structured into several subtopics, each providing a comprehensive analysis of different aspects of the subject. We also include tables and references to easily accessible diagrams to aid understanding.*

**Keywords:** *natural language processing*

