The Study of Kotlin Programming Language Like Features, Applications, and Advancements

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Abstract*: Kotlin, developed by JetBrains, has become one of the most popular programming languages for Android development, with a growing presence in backend development and cross-platform applications. This paper reviews Kotlin's key features, its advantages over Java, and its applications in modern software development. By examining both the strengths and challenges of Kotlin, we aim to provide a comprehensive overview of its role in the current programming landscape. Additionally, the paper explores Kotlin's growing ecosystem, community, and future advancements in the language.*

Keywords: Kotlin, Programming Language, Android Development, Software Engineering, JVM, Cross-Platform, Java Compatibility