**SECURE CHAT API: ENCRYPTED CHAT APPLICATION PROGRAM INTERFACE WITH BLOCK-CHAIN AUTHENTICATION**

**PROJECT REPORT**

***Submitted by***

**G. GOKUL 812420104027**

**M. PREMSRIDEV 812420104071**

**A. RAHMATHULLAH 812420104073**

**T. SHAIK MOHAMED FAHAD 812420104083**

***In partial fulfillment for the award of the degree of***

# BACHELOR OF ENGINEERING

**in**

**COMPUTER SCIENCE AND ENGINEERING**

**M.I.E.T. ENGINEERING COLLEGE, TRICHY – 620007**

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# BONAFIDE CERTIFICATE

Certified that this project report “**SECURE CHAT API: ENCRYPTED CHAT APPLICATION PROGRAM INTERFACE WITH BLOCK-CHAIN AUTHENTICATION”** is the Bonafide of “**G. GOKUL” (812420104027), “M. PREMSIDEV” (812420104071), “A. RAHMATHULLAH” (812420104073) and “T. SHAIK MOHAMED FAHAD” (812420104083)** who carried out the project under the supervision.

**SIGNATURE SIGNATURE**

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**HEAD OF THE DEPARTMENT SUPERVISOR**

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Submitted for the viva-voce held on

**INTERNAL EXAMINER EXTERNAL EXAMINER**

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# ABSTRACT

This paper proposes the development of a cutting-edge Chat API engineered to ensure unparalleled security and reliability in facilitating encrypted communication within a Chat Application. The primary objective is to implement robust encryption protocols seamlessly across various platforms without exposing the underlying cryptographic techniques. Furthermore, the integration of Block-chain Authentication mechanisms is advocated to elevate user identity verification and authentication, thereby fortifying the overall security posture of the Chat API. Through meticulous design and deployment, this initiative aims to set a new standard for secure and dependable communication platforms, safeguarding user privacy and data integrity in an increasingly interconnected digital landscape.