

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum - 590014, Karnataka



**CRYPTOGRAPHY
AAT REPORT**

On
ChaCha20

Submitted by

Sarthaka Mitra GB (1BM23CS305)
Shaikh Uzair Ahmed (1BM23CS307)
Shashank U (1BM23CS314)
Subramanya J (1BM23CS343)

Under the Guidance of

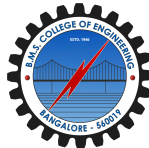
Dr. Nandhini Vineeth
Associate Professor
Department of CSE
B. M. S. College Of Engineering

in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING



B. M. S. College Of Engineering
(Autonomous Institution under VTU)

BENGALURU - 560019

February 2025 to June 2025

B. M. S. College Of Engineering,
Bull Temple Road, Bengaluru 560019
(Affiliated To Visvesvaraya Technological University, Belgaum)
Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the project work entitled **ChaCha20**, carried out by
Sarthaka Mitra GB (1BM23CS305), Shaikh Uzair Ahmed
(1BM23CS307), Shashank U (1BM23CS314), Subramanya J
(1BM23CS343), who are bonafide students of **B. M. S. College of**
Engineering, is in partial fulfillment for the award of Bachelor of Engineering in
Computer Science and Engineering of Visvesvaraya Technological University,
Belgaum during the year 2024-2025. The AAT has been approved as it satisfies the
academic requirements of the course CRYPTOGRAPHY (23CS4ESCRP) work
prescribed for the said degree.

Signature of the Guide

Dr. Nandhini Vineeth

Associate Professor

Department of CSE

B. M. S. College Of Engineering

Signature of the HOD

Dr. Kavita Sooda

Professor and Head

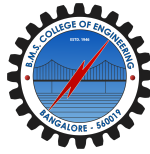
Department of CSE

B. M. S. College Of Engineering

Name of the Examiner

Signature with Date

**B. M. S. College Of Engineering,
Department of Computer Science and Engineering**



Declaration

We, **Sarthaka Mitra GB (1BM23CS305)**, **Shaikh Uzair Ahmed (1BM23CS307)**, **Shashank U (1BM23CS314)**, **Subramanya J (1BM23CS343)**, students of 4th Semester, B.E, Department of Computer Science and Engineering, BMS College of Engineering, Bengaluru, hereby declare that this AAT entitled **ChaCha20** has been carried out by us under the guidance of **Dr. Nandhini Vineeth**, Associate Professor, Department of CSE, B. M. S. College Of Engineering, Bangalore, during the academic semester **April 2025 - August 2025**.

We also declare that, to the best of our knowledge and belief, the development reported here is not a part of any other report by any other students.

Signatures

Sarthaka Mitra GB (1BM23CS305)

Shaikh Uzair Ahmed (1BM23CS307)

Shashank U (1BM23CS314)

Subramanya J (1BM23CS343)

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Chapter 1

Introduction

ChaCha20 [1].

Chapter 2

Methodology

Chapter 3

Results and Discussion

Chapter 4

Conclusion and Future Work

Bibliography

- [1] Daniel J Bernstein et al. Chacha, a variant of salsa20. In *Workshop record of SASC*, volume 8, pages 3–5. Citeseer, 2008.