



Web Application to automate Medical Transcription and to store it in Block-chain.

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PROJECT FOR X SEMESTER

PROJECT REPORT

SECURE MEDICAL TRANSCRIPTION USING BLOCKCHAIN



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**M.Sc. SS
X Semester
(2017-2022 BATCH)**

**UNDER THE GUIDANCE OF
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JUNE 2022

Secure Medical Transcription using Blockchain (SMTBC)

***Project report submitted in partial fulfillment
for the requirement of the Degree of***

MASTER OF SCIENCE IN SOFTWARE SYSTEMS

Gowtham Prasad S

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Under the Guidance of

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June 2022



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DECLARATION

I hereby declare that the Project report entitled ***“Secure Medical Transcription using Blockchain (SMTBC)”*** submitted in partial fulfilment of the requirements for the award of degree of Master of Science in Software Systems is an original work and it has not previously formed the basis for the award of any Degree, Diploma, Associateship, Fellowship or similar titles to any other university or body during the period of my study.

Place: Coimbatore

Date:

Signature of the Candidate



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CERTIFICATE

This is to certify that the project report entitled ***“Secure Medical Transcription using Blockchain (SMTBC)”*** submitted in partial fulfillment of requirements for the degree of Master of Science in Software Systems is a record of bonafide work carried out by ***Gowtham Prasad S, 17MSS018*** and that no part of this has been submitted for the award of any other degree or diploma and the work has not been published in popular journal or magazine.

GUIDE

HOD

DEAN_{i/c}

This Project Report is submitted for the Viva Voce examination conducted on _____ at Sri Krishna Arts and Science College.

Internal Examiner

External Examiner

Date: 04.06.2022

To:

The Head of the Department,
Department of Computer Science,
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Respected Sir/Madam,

Sub: Project Completion Certificate

This is to inform that the following Student of **SRI KRISHNA ARTS AND SCIENCE COLLEGE**, has underwent programming training and he was successfully completed his Project, from **January 2022** to **June 2022**.

S.NO	NAME	REG.NO
1	GOWTHAM PRASAD. S	17MSS018

It is observed that he is sincere and prompt in discharging the duties assigned to him from time to time. On behalf of our organization we wish him all the best in future endeavours.

Thanks & Regards



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ABSTRACT

Blockchain is a shared, immutable ledger that facilitates the process of recording transactions and tracking assets in a business network. Blockchains are distributed digital ledgers of cryptographically signed transactions that are grouped into blocks. Blockchain are used to create secure transaction. Medical transcription (MT) is the manual processing of voice reports dictated by physicians and other healthcare professionals into text format. Often it is done by a third-party organization. Whenever medical data leaves the hospital, the medical data is at risk of confidentiality breach.

Blockchain can be used to securely store the medical records over the distributed network. These medical records will not be accessed by anyone but only by who have been granted access. The medical record can be accessed using a unique credential ID.

Web application is developed using HTML, CSS. Medical Transcription process is automated using Python and Google Speech-Recognition API and deployed using Flask. Then Blockchain securely stores the medical record, which is built using Python.

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