# SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION

(Declared as Deemed to be University Under Section 3 of the UGC Act, 1956 Approved by AICTE, Accredited by NBA, NAAC 'A+' Grade) AGALKOTE, TUMAKURU – 572107 KARNATAKA



**Project Report** 

On

"Generation and Integration of Synthetic Data To Develop AI models"

Submitted in fulfillment of requirements for the award of degree

# BACHELOR OF ENGINEERING IN

## COMPUTER SCIENCE AND ENGINEERING

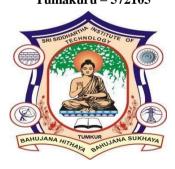
### **Submitted by**

ESHWAR G (21CS029)
PAVAMANA S (21CS071)
ULLAS DG (21CS106)
YASH K (21CS120)

## Under the guidance of

# Mrs. SINDHU TN

Asst. Professor, Dept. of CSE SSIT, Tumakuru – 572105



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY

(A Constituent College of Sri Siddhartha Academy of Higher Education, Approved by AICTE, Accredited by NBA, NAAC 'A+' Grade) MARALUR, TUMAKURU-572105

2024-2025

# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY

(A Constituent College of Sri Siddhartha Academy of Higher Education, Tumakuru, Approved by AICTE, accredited by NBA, NAAC 'A+' Grade)

MARALUR, TUMAKURU – 572105, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



SRI SIDE

This is to certify that the project entitled "GENERATION AND INTEGRATION OF SYNTHETIC DATA TO DEVELOP AI MODELS" is a bonafide work carried out by ESHWAR G, PAVAMANA S, ULLAS DG and YASH K in fulfillment for the award of degree of Bachelor of Engineering in Computer Science and Engineering during the academic year 2024-25.

It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the degree of Bachelor of Engineering in Computer Science and Engineering.

#### Signature of the guide

Mrs. Sindhu TN
Assistant Professor, Dept. of CSE
SSIT, Tumakuru

#### Signature of the HOD

Dr. Raviram V
Professor & Head, Dept of CSE
SSIT, Tumakuru

#### Signature of the Principal

Dr. M.S.Raviprakasha Principal, SSIT,Tumakuru

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roject associates			

Project associates
1) ESHWAR G (21CS029)
2) PAVAMANA S (21CS071)

3) ULLAS DG (21CS106)

4) YASH K (21CS120)

**Examiners** Signature with Date

1. \_\_\_\_\_

2. \_\_\_\_\_

# **ACKNOWLEDGEMENT**

At the outset we express our most sincere grateful thanks to holy sanctum of "SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY", the temple of learning, for giving us an opportunity to pursue the degree course in Computer Science and Engineering thus help shaping our career.

We wish to express our sincere gratitude to **Dr. M. S. RAVIPRAKASHA** Principal, Sri Siddhartha Institute of Technology, for providing us an excellent academic environment, which has nurtured our practical skills, and for kindly obliging our requests and providing timely assistance.

We are highly grateful to **Dr. RAVIRAM V**, Professor and Head of the Department of Computer Science and Engineering, for patronizing us throughout the project and for his encouragement and moral support.

We also wish to express our deep sense of gratitude to our project guide **Mrs. SINDHU TN,** Asst. Professor, Department of Computer Science and Engineering, for her valuable suggestions, guidance, moral support and encouragement in the completion of this project successfully. We have been fortunate for having her precious help.

Finally, we express our gratitude to all the teaching and non-teaching staff of the **Computer Science and Engineering Department** for their timely support and suggestions.

We are also thankful to our parents for their moral support and constant guidance made our efforts fruitful. Last but not the least, our friends, without their constructive criticisms and suggestions, we wouldn't have been able to complete successfully.

#### **PROJECT ASSOCIATES**

Eshwar G	(21CS029)
Pavamana S	(21CS071)
Ullas DG	(21CS106)
Yash K	(21CS120)

# **DECLARATION**

We here by declare that this project work entitled "GENERATION AND INTEGRATION OF SYNTHETIC DATA TO DEVELOP AI MODELS" is an original and bonafide work carried out by us at SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, Tumakuru, in partial fulfillment of BACHELOR OF ENGINEERING in Computer Science and Engineering.

We also declare that, to the best of our knowledge and belief, The work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

 Date:
 Eshwar G
 (21CS029)

 Place:
 Pavamana S
 (21CS071)

 Ullas DG
 (21CS106)

 Yash K
 (21CS120)

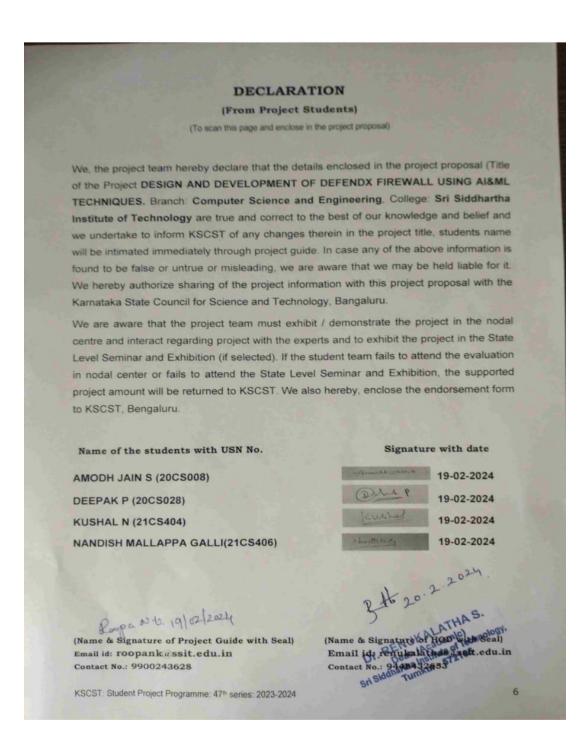


Kushal N(21CS404)



Nandish Mallappa Gali (21CS404)

## **KSCST DECLARATION:**



# **KSCST ENDOSEMENT:**

#### ENDORSEMENT

(From College, endorsement to be taken in the institution / Department Letter head) (To scan this page and enclose in the project proposal)

is to certify that 1) Mr. Amod Jain S 2) Mr. Deepak 3) Mr. Kushal N 4) Mr. Nandish Mallappa Galli are bonafide student(s) of Department of Computer Science and Engineering in the degree program of our institution. If the project proposal submitted by these students under the 47th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

Buysa 3.10. 19/02/2024

& Signature Project Guide with Seal)

Contact No.: 9900243628

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of (Signature of HOD with Seal) Dean (Academic) Email id: roopank@ssit.edu.in Sri Siddhartha Institute of Technology,

Contact No.: 9448432653

gt 20.2.24

(Signature of the Principal Sri Siddhartha Institute of Techno Email id: palacipalmanine w.2405

Contact No.: 9901922149

KSCST: Student Project Programme: 47th series: 2023-2024