

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belagavi-560014, Karnataka



PROJECT REPORT ON

“CI PIPELINE AND IT AUTOMATION USING DEVOPS”

*SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
PROJECT*

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING**

Submitted By

**ASHRITH P [1SV19CS011]
BHAGYASHREE G [1SV19CS015]
BHOOMIKA J N [1SV19CS020]
DISHAN M [1SV19CS027]**

Under the guidance of

Dr. Dinesha H A B.E., M. Tech., PhD

Associate Professor, Dept. of
CSE.SIET, Tumakuru.

Dinesha H A
PRINCIPAL
S.I.E.T. TUMKUR.



Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated To Visvesvaraya Technological University)

Sira Road, Tumakuru – 572106, Karnataka.

2022-2023



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EDUCATION

Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

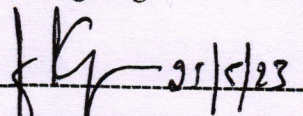
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, project entitled "CI PIPELINE AND IT AUTOMATION USING DEVOPS" has been successfully carried out by ASHRITH P[ISV19CS011], BHAGYASHREE G[ISV19CS015], BHOOMIKA J N [ISV19CS020], DISHAN M[ISV19CS027] in partial fulfillment for the project report of **Bachelor of Engineering in Computer Science & Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year **2022-23**. It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The Project report has been approved as it certifies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of Guide

Dr. Dinesha H A B.E., M.Tech., PhD

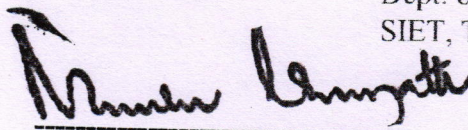
Assistant Professor,
Dept. of CSE,
SIET, Tumakuru.



Signature of H.O.D

Dr Basavesha D B.E., M.Tech., PhD,

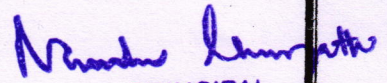
Associate Professor & HOD
Dept. of CSE,
SIET, Tumakuru.




Signature of Principal

Dr. Narendra Viswanath M.E., Ph.D., MIE, MISTE, MIWS., FIV.,

Principal,
SIET, Tumakuru


PRINCIPAL
SIET, TUMKUR.


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SIET, TUMKUR.

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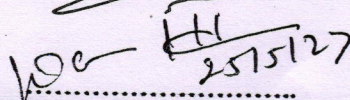
Name of the Examiners

1. Dr. Basavesha D

2. Wagim Uddin

Signature with date







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ESTD: 2002



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We, ASHRITH P [ISV19CS011], BHAGYASHREE G [ISV19CS015],
BHOOMIKA J N [ISV19CS020], DISHAN M [ISV19CS027] student of VIII
semester B.E in Computer Science & Engineering, at Shridevi Institute of Engineering
& Technology, Tumakuru, hereby declare that, the Project work-II entitled "CI
PIPELINE AND IT AUTOMATION USING DEVOPS", embodies the report of our
Project work carried out under the guidance of Dr. Dinesha H A, Associate Professor,
Department of CSE, SIET, Tumakuru as partial fulfillment of requirements for the
Project report in Bachelor of Engineering in Computer Science & Engineering of
Visvesvaraya Technological University, Belagavi, during the academic year 2022-23.
The Project has been approved as it satisfies the academic requirements in respect to
the Project work.

Place: Tumakuru

Date: 26/05/2023

Nandana Kumar
PRINCIPAL
SIET, TUMAKURU

Student Name & Signature

ASHRITH P

[ISV19CS011] *Ash*

BHAGYASHREE G

[ISV19CS015] *Bhagyashree*

BHOOMIKA J N

[ISV19CS020] *Bhoomika*

DISHAN M

[ISV19CS027] *Dishan*

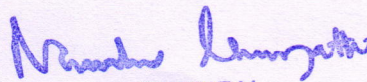
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TO WHOM SO EVER IT MAY CONCERN

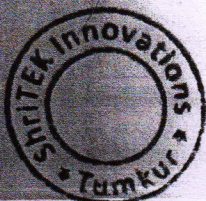
This is to certify that **Mr. ASHRITH P** bearing USN **SV19CS011** Student of **Shridevi Institute of Engineering and Technology** has successfully completed his Project Work titled "CI Pipeline and IT Automation Using DevOps".

We wish every success in his career.

For ShriTEK Innovations


PRINCIPAL
SIET. TUMKUR.


Authorized Signature




Date: 23/05/2023


TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. BHAGYSHREE G** bearing USN **SV19CS015** Student of **Shridevi Institute of Engineering and Technology** has successfully completed her Project Work titled **“CI Pipeline and IT Automation Using DevOps”**.

We wish every success in her career.

For ShriTEK Innovations


Authorized Signature


PRINCIPAL
SIET. TUMKUR.



Date: 23/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. BHOOMIKA J N** bearing USN **SV19CS020** Student of **Shridevi Institute of Engineering and Technology** has successfully completed her Project Work titled "CI Pipeline and IT Automation Using DevOps".

We wish every success in her career.

For ShriTEK Innovations

N. Srinivas Kumar
PRINCIPAL
SIET, TUMKUR.

M. Srinivas Kumar
Authorized Signature



ShriTEK Innovations

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Date: 23/05/2023

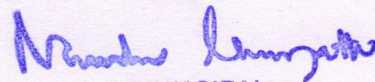
TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. DISHAN M** bearing USN **SV19CS027** Student of **Shridevi Institute of Engineering & Technology** has successfully completed his Project Work titled **"CI Pipeline and IT Automation Using DEVOPS"**.

We wish every success in his career.

For ShriTEK Innovations

Authorized Signature



PRINCIPAL
SIE T. TUMKUR.



ABSTRACT

DevOps is a software development method that collaborates both development and operations teams to increase the quality of software delivered. It helps development teams with continuous planning, continuous integration, continuous deployment, and continuous feedback. For example, in IT companies each one in the team works on a single feature and then combines their work to make it a complete application. After the development of an individual feature, it becomes a very tedious job to integrate all of their code and it takes much time. So, DevOps comes with an idea of integrating team code after at regular intervals thus making final application development easier and faster, continuous deployment, planning and feedback also achieved. This paper explains the various tools available in the market to make software development easier, DevOps architecture, and its benefits.

Narash Channappa
PRINCIPAL
SIE.T. TUMKUR.

Narash Channappa