# VISVESVARAYA TECHNOLOGICAL UNIVERSITY "JNANA SANGAMA", BELAGAVI – 590018



## Ability Enhancement Course Report on GitHub: AI-Powered Developer Platform Submitted by

SADHGUNA AITHAL

4SF21IS080

In partial fulfillment of the requirements for V Semester of

# BACHELOR OF ENGINEERING IN INFORMATION SCIENCE & ENGINEERING

#### **Under the Guidance of**

Mrs. Akhila Thejaswi R

Assistant Professor

Department of Information Science & Engineering



#### **SAHYADRI**

College of Engineering & Management An Autonomous Institution Mangaluru – 575 007

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# **Department of Information Science & Engineering**

### **CERTIFICATE**

	This is to certify that							
Ms./Mr.	Sadhguna Aithal	USN_	4SF21IS080	has				
satisfactorily completed Ability Enhancement Course Experiments on								
GitHub	: AI-Powered Developer Platfori	m (21CS594) in partial f	ulfillment for th	ne Fifth				
Semest	er of Bachelor of Engineering in In	formation Science & E	ngineering dur	ring the				
	<b>GitHub: AI-Powered Developer Platform (21CS594)</b> in partial fulfillment for the <b>Fifth</b> Semester of Bachelor of Engineering in <b>Information Science &amp; Engineering</b> during the Academic Year 2023 - 2024.							

Date: Marks

Head of the Department

Signature of the Staff Member In charge of the Batch

Sahyadri Campus, Adyar, Mangaluru – 575007

#### **CONTENTS**

Sl. No.	Date		Page	Marks	
		Experiments		Max.	Awarded
		Setting Up and Basic Commands			
		Initialize a new Git repository in a			
1		directory. Create a new file and add it			
1		to the staging area and commit the			
		changes with an appropriate commit			
		message.			
		Creating and Managing Branches			
		a) Create a new branch named			
		"feature-branch." Switch to the			
		"master" branch. Merge the			
2		"feature-branch" into "master."			
		b) Write the commands to stash			
		your changes, switch branches,			
		and then apply the stashed			
		changes.			
		Collaboration and Remote			
		Repositories			
		a) Clone a remote Git repository			
		to your local machine.			
		b) Fetch the latest changes from a			
3		remote repository and rebase			
		your local branch onto the			
		updated remote branch.			
		c) Write the command to merge			
		"feature-branch" into "master"			
		while providing a custom			
		commit message for the merge.			
		Git Tags and Releases			
4		Write the command to create a			
		lightweight Git tag named "v1.0" for a			
		commit in your local repository.			
		Advanced Git Operations			
5		Write the command to cherry-pick a			
		range of commits from "source-			
		branch" to the current branch.			

Sl.	Date	Evenovinouto	Page	Marks	
No.		Experiments		Max.	Awarded
6		<ul> <li>Analysing and Changing Git History</li> <li>a) Given a commit ID, how would you use Git to view the details of that specific commit, including the author, date, and commit message?</li> <li>b) Write the command to list all commits made by the author "JohnDoe" between "2023-01-01" and "2023-12-31."</li> <li>c) Write the command to display the last five commits in the repository's history.</li> <li>d) Write the command to undo the</li> </ul>			
		repository's history.			