



# **GITHUB:** **AI-POWERED** **DEVELOPER** **PLATFORM**

BY AKKIL MG, ISDC

**2025**

Department of  
ISE & CSE (Data Science)

Organizes



Workshop on

# Git Fundamentals: Peer-Led Learning experience



10<sup>th</sup> May 2025

01:30 pm Onwards

Venue: Second Floor seminar Hall, SCEM



Peer Mentor

**Akkil M G**

8th Sem, ISE

**Prof. Pratheek H**

Faculty Coordinator

**Dr. Rithesh Pakkala P.**

HOD, ISE & CSE (DS)

**Dr. Shamantha Rai**

Dean Academics

**Dr. Sudheer Shetty**

Vice Principle & Professor - ISE

**Dr. Manjappa Sarathi**

Director (R & D), SCEM

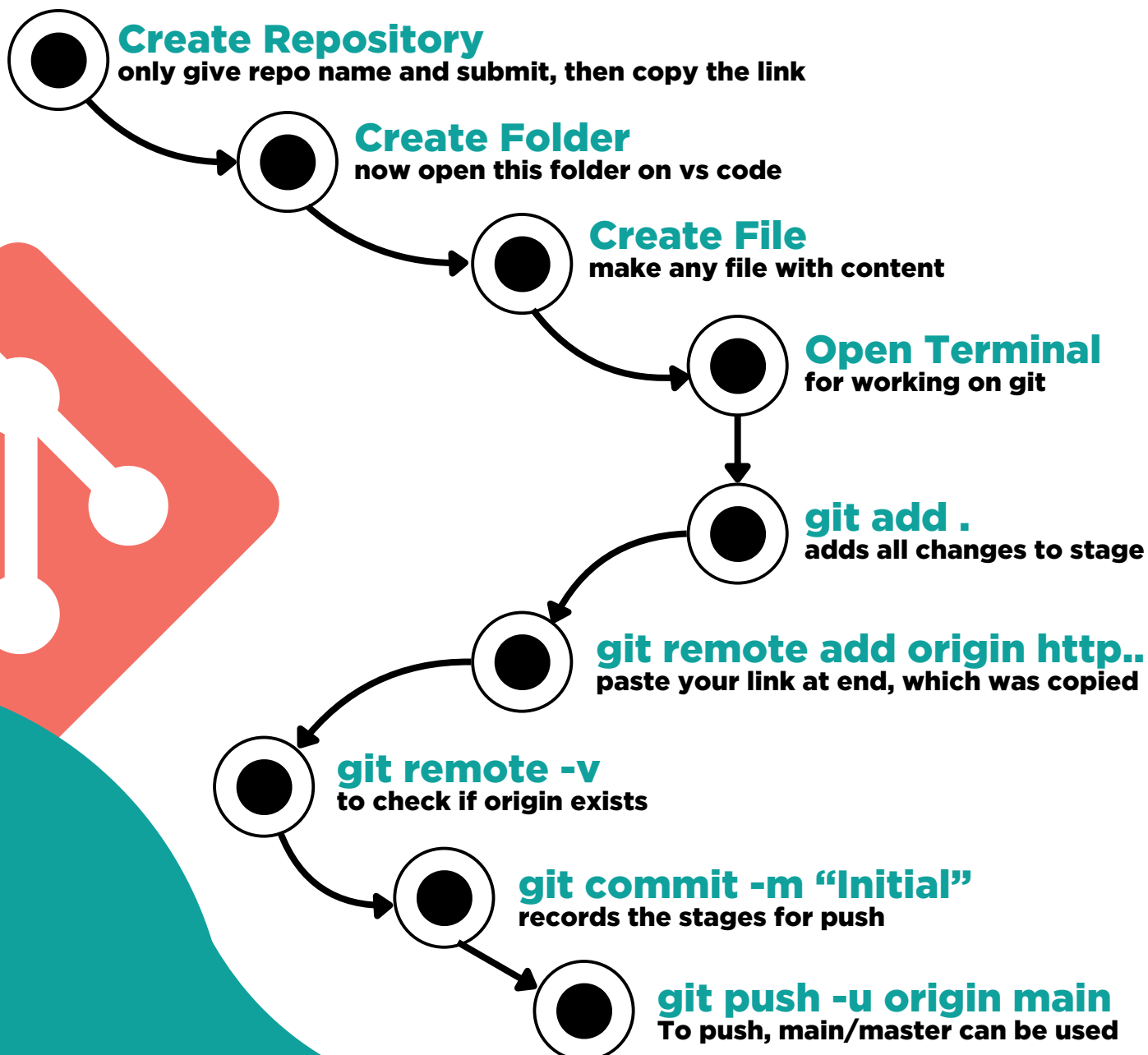
**Dr. S. S. Injaganeri**

Principal, SCEM

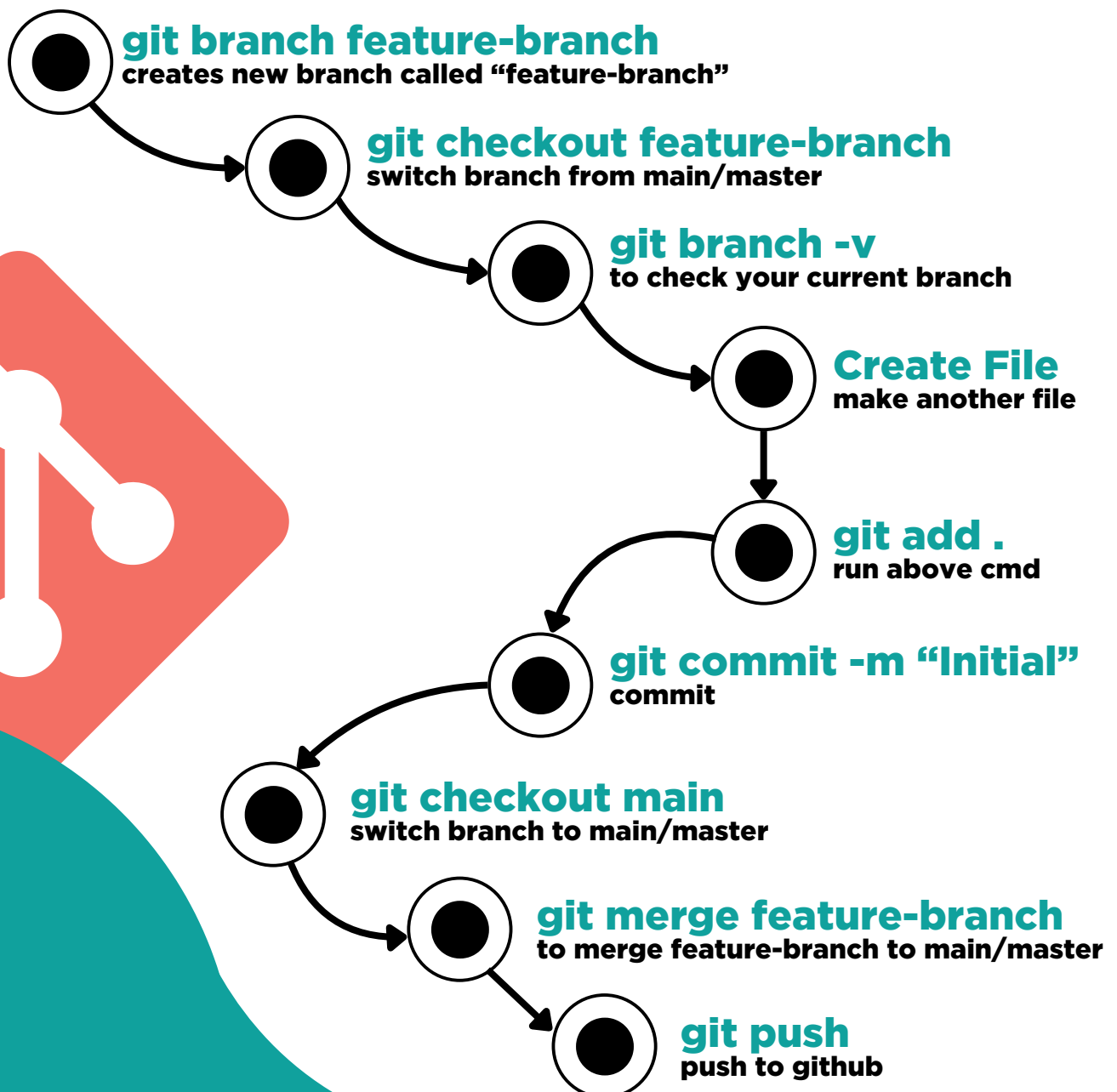


*All are Cordially Invited!*

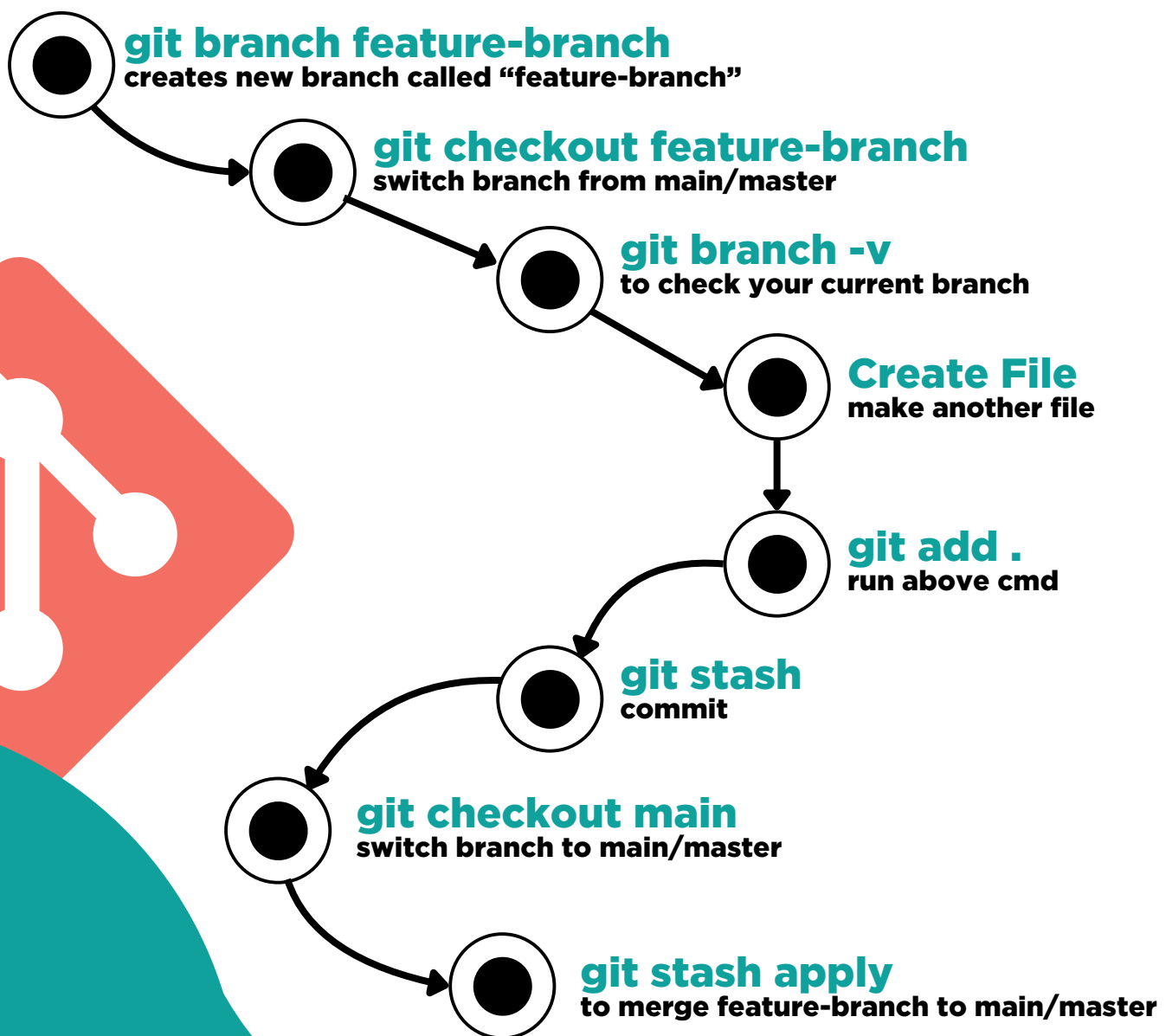
# Setting Up and Basic Commands



# Creating and Managing Branches: Merge



# Creating and Managing Branches: Stash

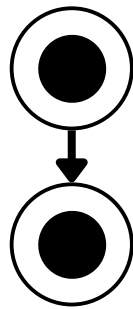


# Collaboration and Remote Repositories

## (a) Clone

**git clone http:...**  
clone repository to your local machine

## (b) Fetch & Rebase



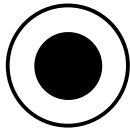
**git fetch**  
fetch the commits from github

**git rebase origin/main**  
works like pull, could be main/master

## (c) Merge with message

**git merge feature-branch --no-ff -m "Merge"**  
to merge feature-branch to main/master

# Git Tags and Releases

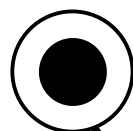


**git tag v1.0**  
local repository tag

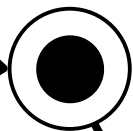
## Release

- Go to github repository.
- On the right, there will be Releases
- Click on “Create a new release”, and give “Release Title” to v1.0.

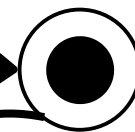
# Advanced Git Operations



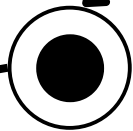
**git checkout feature-branch**  
run above cmd



**Create File**  
create a new file



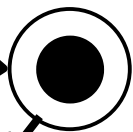
**git add .**  
adds all changes to stage



**git commit -m “Feature”**  
records the stages



**git log --oneline**  
copy one of the recent code (top)



**git checkout main**  
switches branch to main/master



**git cherry-pick df....**  
commit from another branch (no merge)



# Analysing and Changing Git History

(a) Show `git show df....`  
get df... (id) from `git log --online`

(b) Logs of author with date

`git log --author="JohnDoe" --after="2023-01-01"  
--before="2023-12-31"`

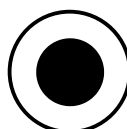
when practicals use, your own name in author and also timings



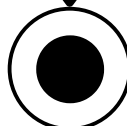
(c) Last five commits

`git log -n 5`  
get recent commits in the logs

(d) Last five commits



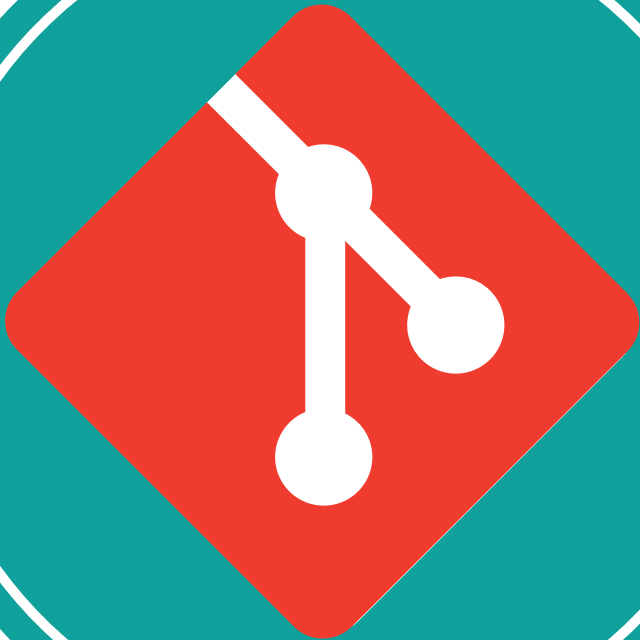
`git log --online`  
copy one of the code you want to erase



`git revert abc123`  
switches branch to main/master



# ISDC



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## Contact Me



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