

PORTFOLIO

CA ASSIGNMENT OF CSE111

(ORIENTATION TO COMPUTING-1)

COMPUTER SCIENCE AND ENGINEERING

Submitted by: Ashish Chandrans

Name: Ashish Chandrans

Roll No.: RK25CHA18

Registration No.:12505021

Section: K25CH

Submitted to : Gunseerat Kaur



LOVELY
PROFESSIONAL
UNIVERSITY

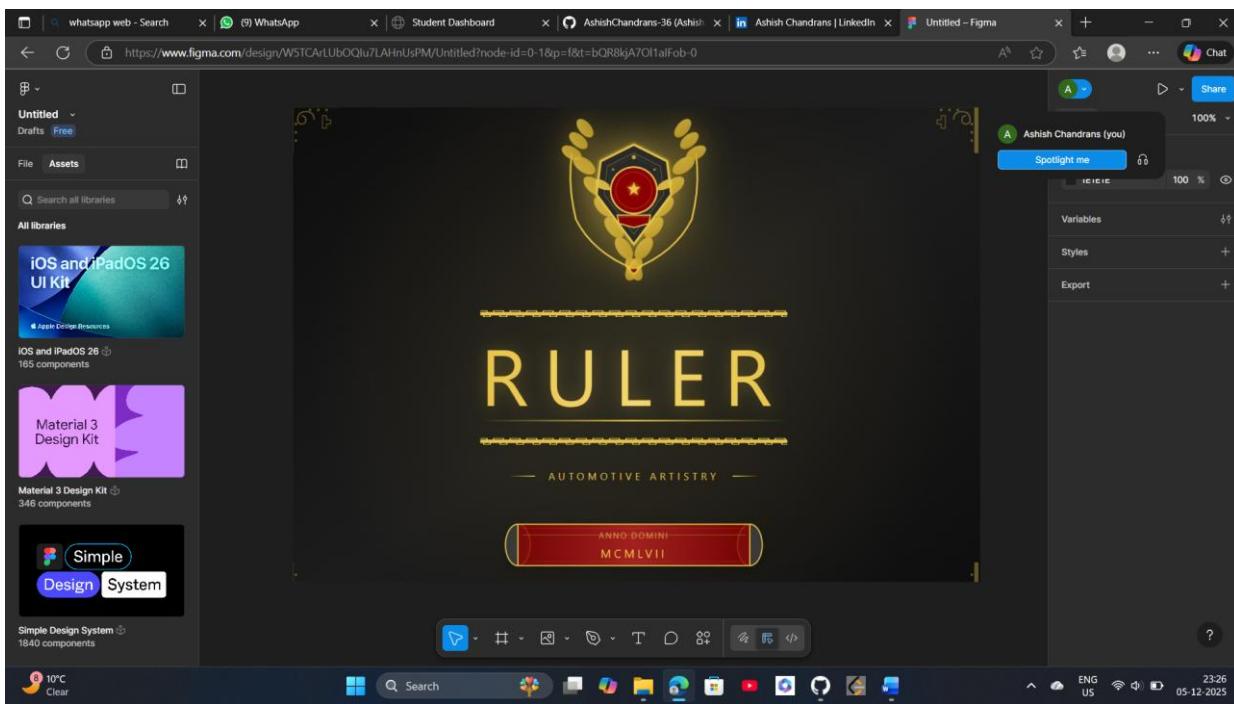
DECLARATION

I. Ashish Chandrans, a student of Bachelor of Technology under CSE discipline at Lovely Professional University, Punjab, hereby declare that all the information furnished in this project report is based on my own work and is genuine.

Name: Ashish Chandrans

Platforms for profile creation	Link to student profile	Page
<i>Figma</i>	https://www.figma.com/@1e6aaad4_48364	
<i>Leet code</i>	https://leetcode.com/u/avyonaai	
<i>Stack overflow</i>	https://stackoverflow.com/users/31887561/ashish-chandrans	
<i>Hacker Rank</i>	https://www.hackerrank.com/profile/avyona_ai	
<i>Hacker Earth</i>	https://www.hackerearth.com/@ashishchandrans36/	
<i>Geeks for Geeks</i>	https://www.geeksforgeeks.org/profile/ashishchandrans36	
<i>Github</i>	https://github.com/AshishChandrans-36	
<i>LinkedIn</i>	https://www.linkedin.com/in/ashish-chandrans-033b2b379/	
<i>CV</i>		
<i>Technical mooc registration proof</i>		
<i>MOOCS Certificates</i>	https://techveda.in/positiveVideo	
<i>Figma image link</i>	https://www.figma.com/design/W5TCArLUbOQlu7LAHnUsPM/-id=0-1&t=bQR8kjA7OI1aIFob-1 Untitled?node	

Figma:



HackerRank:

A screenshot of a HackerRank profile page for 'Ashish Chandrans'. The profile section shows a placeholder image with a 'H' and the name 'Ashish Chandrans' with a LinkedIn icon. Below this is a 'Personal Information' section with fields for email ('avyona.ai@gmail.com'), mobile number, and location ('India'). There are also sections for 'My Badges' (empty), 'My Certifications' (empty), 'My Resume' (placeholder 'Add your resume here'), 'Work Experience' (placeholder 'Add your work experience. Don't forget to add those internships as well.'), and 'EEO settings'. A progress bar at the top right indicates '20%'. The bottom of the screen shows a Windows taskbar with various icons and system status.

Linkedin:

The screenshot shows a LinkedIn profile for Ashish Chandrans. The profile picture is a circular photo of a man standing outdoors. The main banner image shows a modern office setup with a desk, chair, and plants. Below the banner, the profile name "Ashish Chandrans" is displayed with a "Add verification badge" button. It says "Student at Lovely Professional University Jalandhar, Punjab, India" and has a "Contact info" link. The "Connections" section shows "500+ connections" with buttons for "Open to", "Add section", "Enhance profile", and "...".

On the right side, there are sections for "Profile language" (set to English), "Public profile & URL" (link: www.linkedin.com/in/ashish-chandrans-033b2b379), and "Who your viewers also viewed". The "Who your viewers also viewed" section lists three profiles from "Someone at Lovely Professional University" with "View" buttons.

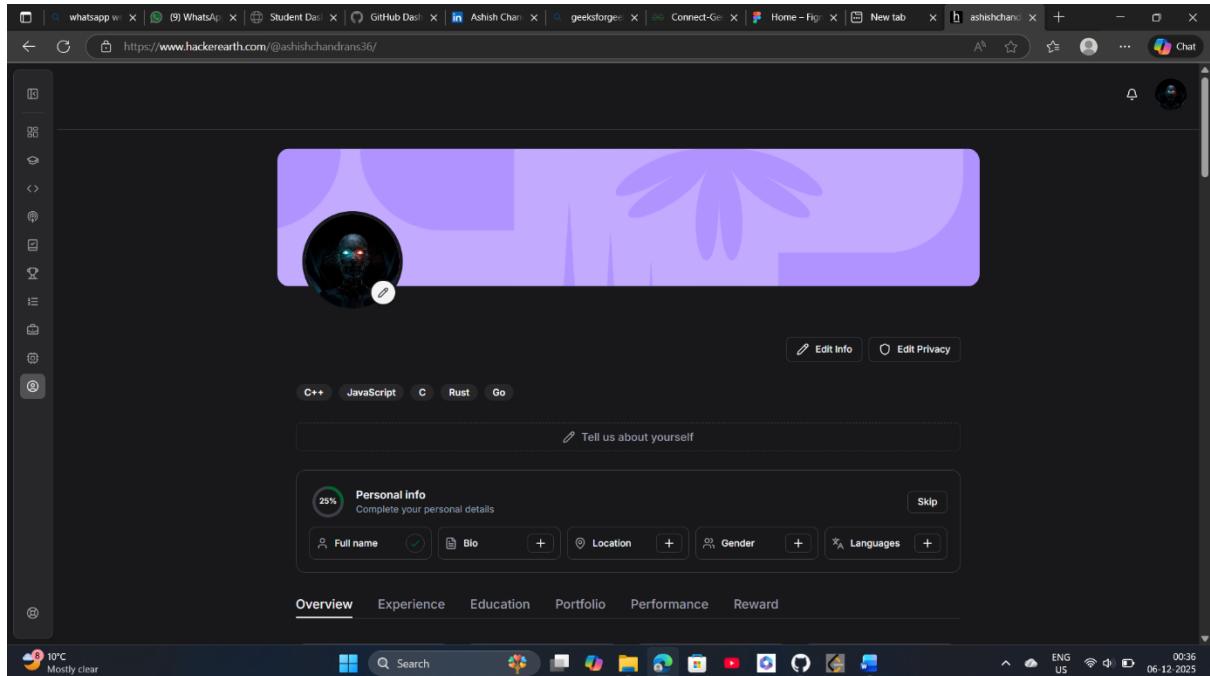
At the bottom of the LinkedIn window, the Windows taskbar is visible, showing various pinned apps like WhatsApp, Student Dashboard, and GitHub. The system tray shows the date as 06-12-2025 and the time as 00:19.

StackOverflow:

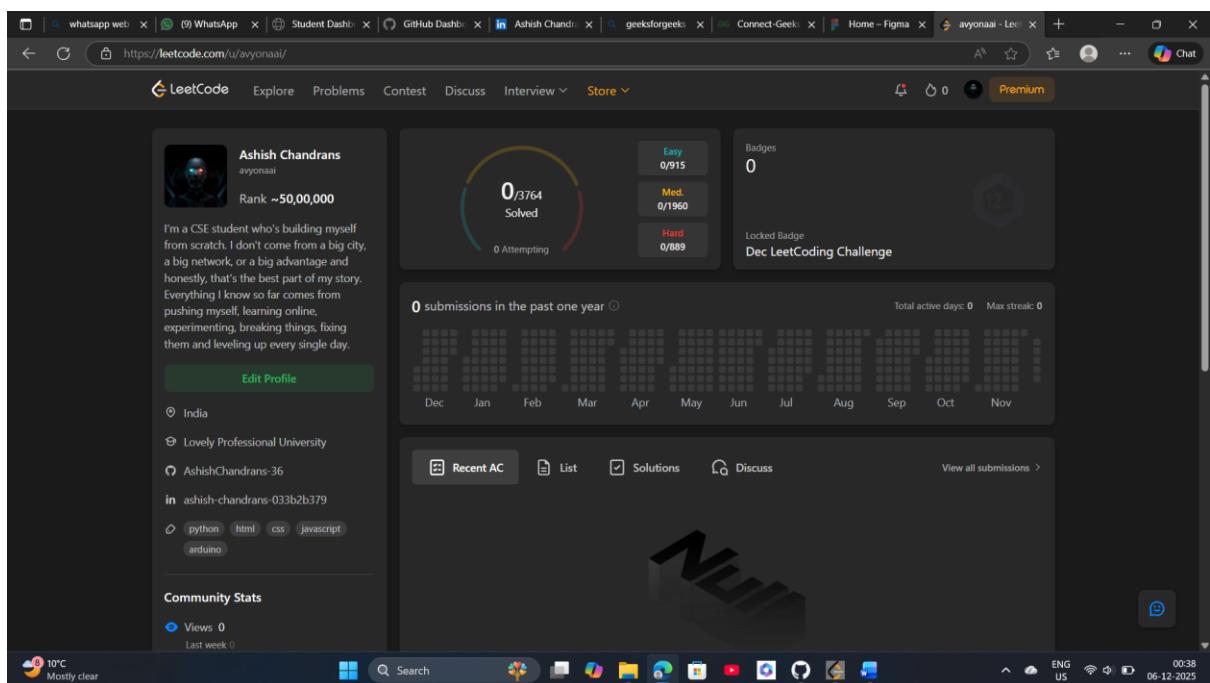
The screenshot shows a Stack Overflow user profile for "Ashish Chandrans". The profile picture is a blue geometric pattern. The profile summary includes "Member for 20 days", "Last seen this week", and "Visited 2 days, 1 consecutive". The "Profile" tab is selected. The "Stats" section shows 1 reputation, 0 reached, 0 answers, and 0 questions. The "About" section is currently blank. The "Badges" section shows a "Stack Overflow" badge (1) and an "Informed" badge (Nov 16). The "Posts" section is partially visible.

On the left sidebar, the navigation menu includes Home, Questions, AI Assist, Tags, Saves, Challenges, Chat, Articles, Users (selected), Companies, COLLECTIVES (+), and STACK INTERNAL (with a note about Stack Overflow for Teams becoming Stack Internal). The system tray at the bottom shows the date as 05-12-2025 and the time as 23:00.

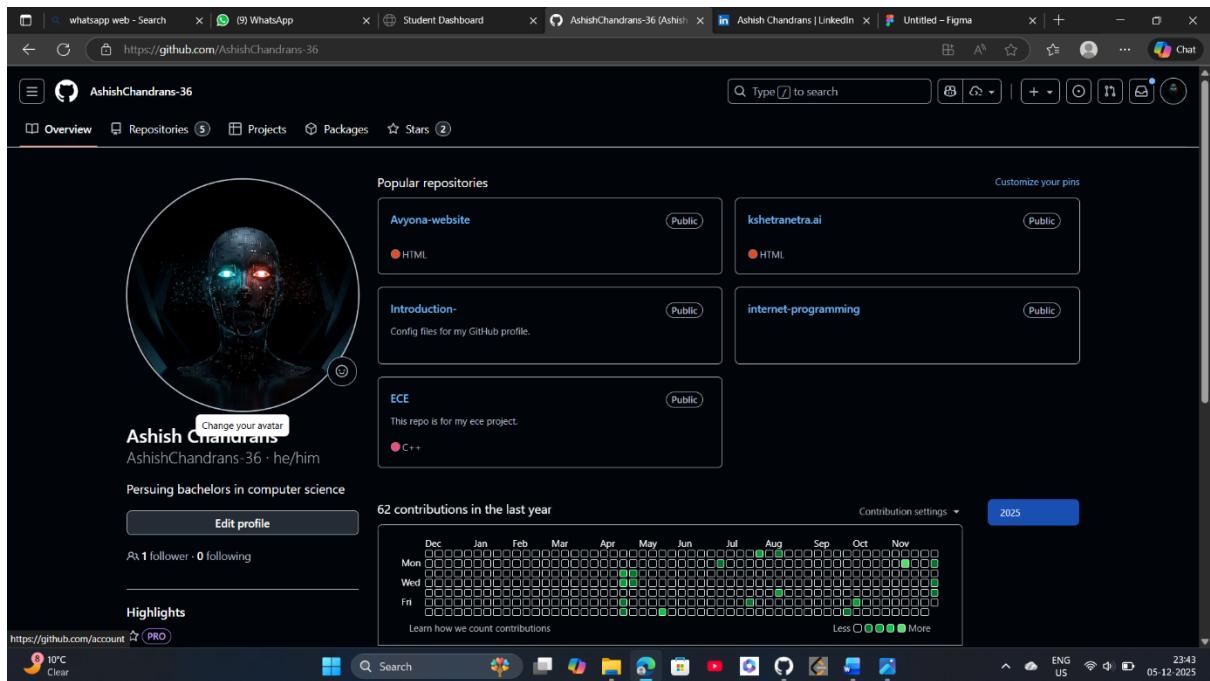
HackerEarth:



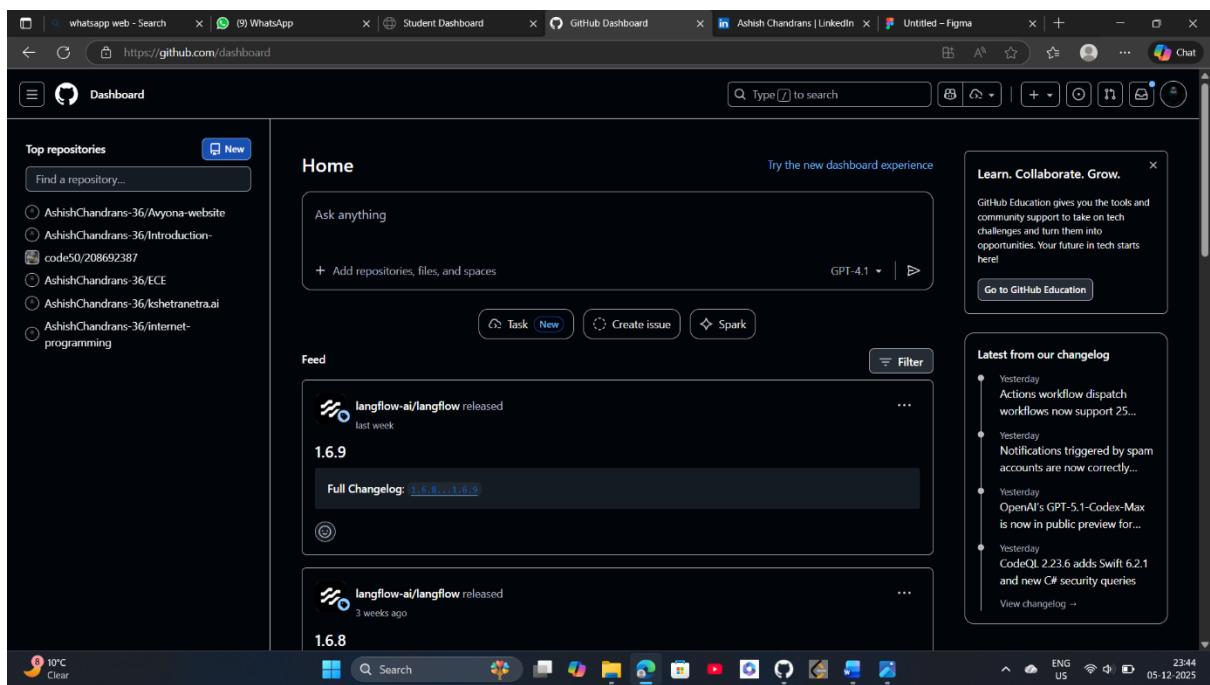
Leetcode:



GitHub:

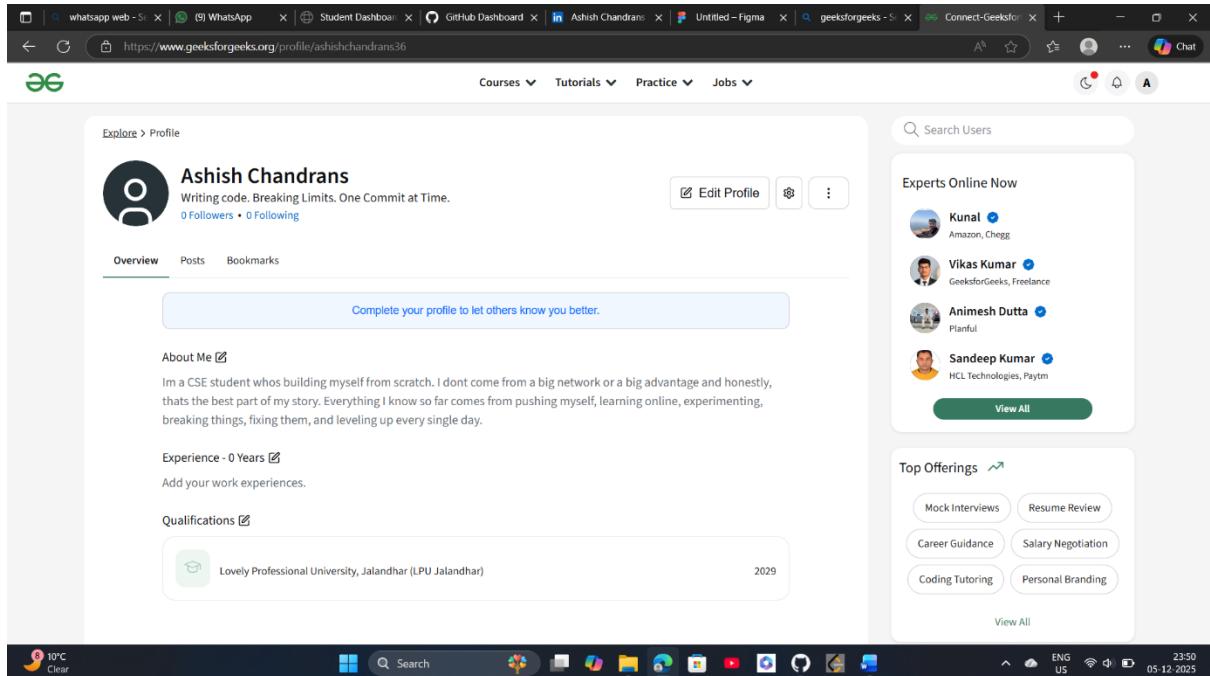


A screenshot of a GitHub profile page for 'AshishChandans-36'. The profile features a circular AI-themed avatar. The user's name is 'Ashish Chandans' and they are listed as 'AshishChandans-36 · he/him'. Below the profile, it says 'Pursuing bachelors in computer science'. The 'Edit profile' button is visible. The 'Popular repositories' section shows four repos: 'Avonya-website' (HTML), 'kshetranetra.ai' (HTML), 'Introduction-' (Public, description: 'Config files for my GitHub profile.'), and 'internet-programming' (Public). Another repo, 'ECE', is shown with the note 'This repo is for my ece project.' and 'C++'. A 'Contribution calendar' for the last year is displayed, showing activity from December to November. The GitHub interface includes a search bar, navigation links for Overview, Repositories, Projects, Packages, and Stars, and a 'Customize your pins' section.



A screenshot of the GitHub Dashboard. On the left, there's a sidebar titled 'Top repositories' with a 'New' button and a search bar. It lists several repos: 'AshishChandans-36/Avonya-website', 'AshishChandans-36/Introduction-', 'code50/208692387', 'AshishChandans-36/ECE', 'AshishChandans-36/kshetranetra.ai', and 'AshishChandans-36/internet-programming'. The main dashboard area has a 'Home' section with a 'Ask anything' input field, a 'Create issue' button, and a 'Spark' button. Below this is a 'Feed' section showing two recent releases: 'langflow-ai/langflow released last week 1.6.9' and 'langflow-ai/langflow released 3 weeks ago 1.6.8'. To the right, there's a 'Learn. Collaborate. Grow.' section about GitHub Education and a 'Latest from our changelog' section listing recent updates like 'Actions workflow dispatch workflows now support 25...' and 'Notifications triggered by spam accounts are now correctly...'. The dashboard also includes a search bar, navigation links, and a weather widget.

Geekforgeeks:



Git:

```
MINGW64 /c/Users/ashis/OneDrive/Desktop/git
ashish@Ashi MINGW64 ~/OneDrive/Desktop/git (master)
$ git init
Reinitialized existing Git repository in C:/Users/ashis/OneDrive/Desktop/git/.git/
ashish@Ashi MINGW64 ~/OneDrive/Desktop/git (master)
$ git help
usage: git [v | --version] [-h | --help] [-c <name>=<value>]
   [-exec-path=<path>] [-html-path] [-man-path] [-info-path]
   [-p | --paginate | -P | --no-pager] [-no-replace-objects] [-no-lazy-fetch]
   [-no-depack-locks] [-no-advice] [-bare] [-git-dir=<path>]
   [-work-tree=<path>] [-namespace=<name>] [-config-env=<name>=<envvar>]
   <command> [<args>]

These are common Git commands used in various situations:
start a working area (see also: git help tutorial)
  clone      Clone a repository into a new directory
  init       Create an empty Git repository or reinitialize an existing one
work on the current change (see also: git help everyday)
  add        Add file contents to the index
  mv        Move or rename a file, directory, or a symlink
  restore    Restore working tree files
  rm        Remove files from the working tree and from the index
examine the history and status (see also: git help revisions)
  bisect    Use binary search to find the commit that introduced a bug
  diff      Show changes between commits, commit and working tree, etc
  grep      Print lines matching a pattern
  log       Show commit logs
  show      Show various types of objects
  status    Show the working tree status
grow, mark, and tweak your commit history
  branch   Download missing objects in a partial clone
  checkout  List, create, or delete branches
  commit   Record changes to the repository
  merge   Join two or more development histories together
  rebase   Reapply local commits on top of another base tip
  reset   Reset current HEAD to the specified state
  switch   Switch branches
  tag     Create, list, delete or verify tags
collaborate (see also: git help workflows)
  fetch   Download objects and refs from another repository
  pull    Fetch from and integrate with another repository or a local branch
  push    Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <commands>' or 'git help <concept>'.
to read about a specific subcommand or concept.
see 'git help git' for an overview of the system.

ashish@Ashi MINGW64 ~/OneDrive/Desktop/git (master)
$
```

A screenshot of a Windows terminal window showing a Git command-line session. The user runs 'git help' to view common commands, which are listed in the terminal. The session ends with the user navigating back to the OneDrive directory. The terminal is running on a Windows 10 desktop, with the taskbar visible at the bottom showing various icons like File Explorer, Edge, and File Explorer.

```
MINGW64/c/Users/ashis/OneDrive/Desktop/git
clone    Clone a repository into a new directory
init     Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
add      Add file contents to the index
mv      Move or rename a file, directory, or a symlink
restore   Reset working tree files
rm      Remove files from the working tree and from the index

examine the history and status (see also: git help revisions)
bisect   Use binary search to find the commit that introduced a bug
diff     Show changes between commits, commit and working tree, etc
grep    Print lines matching a pattern
log     Show commit logs
show    Show various types of objects
status   Show the working tree status

grow, mark and tweak your common history
backtrack  Drop commits from objects in a partial clone
branch   List, create, or delete branches
commit   Record changes to the repository
merge   Join two or more development histories together
rebase   Rewrite history on top of another base tip
reset   Reset current HEAD to the specified state
switch   Switch branches
tag     Create, list, delete or verify tags

collaborate (see also: git help workflows)
fetch   Download objects and refs from another repository
pull    Fetch from and integrate with another repository or a local branch
push    Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
see 'git help git' for an overview of the system.

ashis@Ashi: MINGW64 ~/OneDrive/Desktop/git (master)
$ git config --global user.name Ashish
ashis@Ashi: MINGW64 ~/OneDrive/Desktop/git (master)
$ git config --global user.mail ashish@gmail.com
ashis@Ashi: MINGW64 ~/OneDrive/Desktop/git (master)
$ git add file.txt
ashis@Ashi: MINGW64 ~/OneDrive/Desktop/git (master)
$ git commit
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Cv.pdf
    PORTFOLIO.docx
nothing added to commit but untracked files present (use "git add" to track)
ashis@Ashi: MINGW64 ~/OneDrive/Desktop/git (master)
$ |
```

CV:

ASHISH CHANDRANS

Email: ashishchandrans36@gmail.com | Phone: [8797929181]
LinkedIn: <https://www.linkedin.com/in/ashish-chandrans-033b2b379/>
GitHub: <https://github.com/AshishChandrans-36>
Location: Punjab, India

PROFESSIONAL SUMMARY

Motivated first-year B.Tech Computer Science and Engineering student at Lovely Professional University with demonstrated expertise in full stack development, artificial intelligence, and embedded systems. Proven track record in developing innovative solutions including emotional AI chatbots and IoT based agricultural systems. Passionate about leveraging emerging technologies to solve real world problems with proficiency in Python, JavaScript, Arduino, and Generative AI.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering
Lovely Professional University, Punjab, India
Registration No.: 12505021 | **Roll No.:** RK25CHA18
Expected Graduation: 2027

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, (Arduino), HTML5, CSS
Development & Tools: Arduino IDE, Python OOP, Proteus (Circuit Simulation), GitHub
Specializations: Generative AI, IoT & Embedded Systems
Design Tools: Figma, Scratch
Other Competencies: Circuit Design, Sensor Integration, Web Development

PROJECTS

Avyona - AI Chatbot

Web Development Project

Description: Developed an innovative emotional AI chatbot that intelligently recognizes and responds to user emotions, providing empathetic replies and support. The system

combines natural language processing with emotional context awareness to deliver meaningful interactions.

Technologies Used: Python, Generative AI, JavaScript, HTML5, CSS
Key Features:

- Emotion recognition algorithm with contextual response generation
- Full-stack web interface for user interaction
- Real-time emotional state analysis

Live Demo: <https://ashishchandrans-36.github.io/Avyona-website/>

GitHub Repository: <https://github.com/AshishChandrans-36/Avyona-website>

Smart Rainwater Harvesting & Irrigation System

ECE Project - IoT & Embedded Systems

Description: Designed and implemented an automated smart irrigation system that optimizes water usage through intelligent rainwater harvesting. The system monitors soil moisture, rainfall patterns, and water levels to automate irrigation, reducing water waste and improving agricultural efficiency.

Technologies Used: Arduino IDE, Proteus, Sensor Integration, IoT
Key Components:

- Arduino Uno microcontroller for system control
- Multi-sensor integration (soil moisture, water level, rain sensors)
- Automated valve control based on real-time data
- Proteus simulation for circuit validation

GitHub Repository: <https://github.com/AshishChandrans-36/ECE>

CODING PROFILES & ACHIEVEMENTS

LeetCode: <https://leetcode.com/u/avyonaa/>

HackerRank: https://www.hackerrank.com/profile/avyona_ai

HackerEarth: <https://www.hackerearth.com/@ashishchandrans36/>

Stack Overflow: <https://stackoverflow.com/users/31887561/ashish-chandrans>

GeeksforGeeks: <https://www.geeksforgeeks.org/profile/ashishchandrans36>

Figma Portfolio: https://www.figma.com/@1e6aaad4_4836_4

CERTIFICATIONS & ONLINE COURSES

- Non Technical MOOC of Effective Time Management.

RELEVANT COURSEWORK

- Python
 - Basic Electrical and Electronics Engineering (ECE249)
 - Embedded Systems and Microcontroller
 - Web Development Fundamentals
-

SOFT SKILLS

- Problem Solving and Debugging
 - Quick Learner with Self-Motivation
 - Research and Innovation Mindset
-

LANGUAGES

- **English:** Fluent
 - **Hindi:** Native
-

DECLARATION

I hereby declare that the information furnished in this CV is true, accurate, and based on my own work and knowledge.

Name: Ashish Chandrans
Date: December 6, 2025