Assignment -5

Submitted By: Khushbu Singh

Submitted To: Aryan Sharma

Roll Number:2501730161

Course: B TECH CSE(AI & ML)

Section: B

Subject: Computer Science Fundamentals and Computer Pathways.

Career Planning & Professional Readiness

Smart Goals:

Short-Term Goals -

My short-term goal is to improve my basics in Python and AI. I will complete two beginner courses and practice at least 20 questions on coding platforms. This will help me understand the fundamentals properly. I plan to achieve this within the next 5 months, studying at least 1 hour daily.

Medium Term Goals -

My medium-term goal is to build at least two small AI projects like a chatbot or image classifier and upload them to GitHub. This will help me learn by doing and also improve my resume. I want to complete both projects by the end of my first year.

Long Term Goals -

My long-term goal is to get an internship in an AI or robotics-related company. To do this, I will learn advanced AI concepts, complete certifications, and make more projects. I will apply to at least 20 internships and keep my resume and LinkedIn updated. I want to achieve this by Year 3 of B.Tech.

Certification Research :

1. IBM AI Engineering Professional Certificate (Coursera)

This certification covers machine learning, deep learning, neural networks, and TensorFlow. It also includes some hands-on labs which will help me practice. It usually takes 2–3 months to finish, depending on how fast I study. It is a good match for my short-term and medium-term goals because it strengthens my basics and helps in building small projects.

2. Google Cloud – Machine Learning Track

Google offers free training for ML concepts and cloud-based AI tools. It usually takes around 2–4 months depending on how much time I spend. The exam fee is separate, but the content is very useful. This certification matches my long-term goal because many AI companies use cloud platforms, and it will help me get closer to an internship later.

LinkedIn Profile Update

I updated my LinkedIn profile by adding:

- A clear profile picture
- A short summary about my interest in AI and learning new skills
- My education details
- Three skills (Python, Problem Solving, Machine Learning basics)

Github link:- https://github.com/Khushbu-1208Singh

LinkedIn:-
https://www.linkedin.com/in/khushbu-singh-725442381?utm_source=share_via&utm_content=profile&utm_medium=member_android

Hackathon/Contest/Open-Source Plan:-

I plan to participate in the Smart India Hackathon (SIH) next year. I want to choose a problem statement related to AI or automation because it matches my interest. To prepare for it, I will:

- Form a team with my classmates
- Pick a simple but useful idea
- Practice basic project building
- Learn to present ideas clearly

If SIH registration is not open yet, I will look for smaller online hackathons on platforms like HackerEarth or Devfolio. I want to take part in at least one event this year.

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KHUSHBU SINGH

(🛡 **Add verification badge**)

Student at K.R. Mangalam University

K.R. Mangalam University
Gurugram, Haryana, India

6 connections

Open to | **Add section** | ⋯

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About　　　　　✎

"I'm a B.Tech student passionate about Artificial Intelligence and continuous learning. I enjoy exploring new technologies, building small projects, and improving my skills step by step."

◈ **Top skills**
Artificial Intelligence (AI) · Python　→
(Programming Language) ·
Problem Solving

Activity　　　(**Create a post**)　✎
6 followers

You haven't posted yet
Posts you share will be displayed here.

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Experience　　　　　　✕

Showcase your accomplishments and get up to 2X as many profile views and connections.

💼　**Company**
　　Job title
　　2023 - Present · 2 yrs

(**Add new experience**)

Career RoadMap

My goal is to build a career in Artificial Intelligence and Robotics. Since I am in the first year, I want to focus mainly on building a strong foundation. In my first year, I plan to learn Python properly and understand basic AI concepts. I also want to complete a couple of beginner projects, because I feel that doing practical things helps me learn better. I will try to upload everything to GitHub so I have some proof of my work.

In my second year, I want to start learning more advanced topics like machine learning, deep learning, and computer vision. This is also when I want to complete at least two certifications that are useful for AI careers. The IBM AI Engineering certificate and Google Cloud ML track will help me improve my understanding and also make my resume stronger. I will also try to join hackathons so that I get experience working with a team and solving real-world problems.

By my third year, I want to be ready for an internship. For this, I need to have a good portfolio, which includes projects, certifications, and some coding practice. I will work on building at least one strong project that I can show to companies. At the same time, I will also work on improving my communication skills, resume writing, and LinkedIn profile because these also matter during internships. I plan to apply to at least 20 companies to increase my chances.

In my final year, I want to focus on a specialization. I haven't chosen one yet, but I am interested in deep learning or robotics. I want to do a final-year project that is meaningful and shows my skills clearly. If possible, I would like to publish a small research paper or present my work in a technical fest. Along with this, I will also prepare for placements by practicing interview questions and brushing up on coding and problem solving.

After college, I want to work as an AI Engineer or Robotics Engineer. Later, if needed, I may also plan for a master's degree to gain more knowledge. But my main focus now is to learn step-by-step, build skills each year, and make sure I stay consistent. With regular effort, practical projects, and learning from mistakes, I believe I can achieve my goals in AI and robotics.

Reflection Section

While completing this assignment, I faced a few challenges, especially with understanding Linux commands, creating a bash script, and making the flowchart properly. At first, I was confused about how to write the algorithm and pseudocode, but step-by-step practice helped me understand how a simple automation system actually works. Using the terminal and running commands was also new for me, but after trying multiple times, I became more comfortable with it.

I also learned a lot about career planning, SMART goals, and how certifications can guide my learning in the right direction. Updating my LinkedIn and preparing for hackathons made me think about how important it is to build an online presence and get real-world experience early on. Making the infographic on AI also helped me understand the current industry trends and job roles.

Overall, this assignment improved my technical skills, confidence, and clarity about my future direction. Now I know what steps I need to take to grow in AI and robotics, and I feel more prepared for upcoming projects and opportunities.