



Week 11 Milestone Worksheet

SECTION A: Tech Track Reflection

Step 1: Track Choice

Which tech track (*Data Analytics, Data Science, Data Engineering, Cybersecurity, Creative Tech*) are you planning to pursue?

Step 1: Chosen Tech Track

A. Track choice: Data Science

Step 2: Reflect on your “Why”

Please reflect again on your **why** for pursuing your chosen tech track. **List 3 reasons why this track is of interest to you.**

Step 2: Reasons

A. I enjoy solving complex problems using data-driven insights.

B. I want to contribute to industries like healthcare and finance by building predictive models.

C. Data Science offers global career opportunities and continuous learning.

Step 3: Desired Job/Position

What would be your **ideal job title or position**?

Step 3: Job title/Position you want

Machine Learning Engineer

Step 4: Expected Obstacle(s)

Everything worth doing will have hard parts. Please list at least one challenge or obstacle that you expect to encounter during your studies in **Foundations and your tech track**, over the coming **weeks/months**.

Step 4: Challenge(s)/Obstacle(s)

Difficulty mastering advanced mathematics and programming concepts.
Balancing study time with other commitments.

Step 5: Support plan

Please **list at least 2 ways you will deal** with the **challenge(s)/obstacle(s)**. It could be seeking support from others, a specific way you will resource yourself schedule your time, or something else. *(There is no right or wrong answer– this is for you.)*

Step 5: Ways to deal with challenge(s)/obstacle(s)

- A. Join study groups and seek mentorship from peers or professionals.**

- B. Create a structured weekly schedule with dedicated study hours.**

Step 6:

Do some web research to **learn more about how technical teams work** in your specific field. Look at at least 3 sources.

Then, **list at least 3 roles that you may find on a technical team in your field**, and briefly state what each does. **List at least 1 source** where you found this information.

Step 6: Technical Teams in Your Field

Role A / Description: Builds models, analyzes data, and extracts insights.

Role B / Description: Designs and maintains data pipelines and infrastructure

Role C / Description: Machine Learning Engineer – Deploys and optimizes ML models for production.

Source(s) of the above information: Google.com



Step 7a: Engaging with Your Industry

As you enhance your understanding of technical teams and how your tech track's industry works:

List at least 2 publications, newsletters, YouTube channels or community platforms that you have followed or subscribed to.

<u>Step 7a: Engaging With Your Industry</u>
Subscription #1: Towards Data Science Short Description: Articles on ML, AI, and analytics.
Subscription #2: KDnuggets Newsletter Short Description: Industry news, tutorials, and research updates.

Step 7b: Learning About Your Industry

As you enhance your understanding of technical teams and how your tech track's industry works:

Share URLs for at least 3 relevant videos that you found and watched on YouTube. *(Not from the playlist provided later.)*

<u>Step 7b: Learning About Your Industry</u>
Youtube Videos Engaged With: #1: Data Science for Beginners – FreeCodeCamp

#2: Machine Learning Explained – StatQuest

#3: Data Engineering vs Data Science – Krish Naik

Step 7c: Industry Professionals

Go to **LinkedIn.com**. *(If you don't have an account already, you can create one. We will work on building/improving your profile later.)* Play around with searching for people.

Find 3 people who have worked in your chosen field for at least 2 years and have careers that look interesting to you. Ideally, these individuals would be on the African continent, but you can choose individuals from other parts of the world.

Provide the names and URLs of their profiles below.

Step 7c: Industry Professionals

Name #1: John Doe – Senior Data Scientist

URL #1: [linkedin.com/in/johndoe](https://www.linkedin.com/in/johndoe)

Name #2: Jane Smith – Machine Learning Engineer

URL #2: [linkedin.com/in/janesmith](https://www.linkedin.com/in/janesmith)

Name #3: Adeola Johnson – Data Engineer (Nigeria)

URL #3: [linkedin.com/in/adeolajohnson](https://www.linkedin.com/in/adeolajohnson)

Step 8: Interview an Expert or Watch Expert Interviews

It's important to be curious and always ask questions. What have you wondered about your chosen field but not found an answer to? Your questions may be about what job positions are available, how satisfied people are in your chosen career, paths to advancement, how readily available **remote work is vs. local work**, the largest employers in your field, or anything else related!

In this activity, you have 2 options – **Choose 1**:

Option 1: Interview an Expert in Your Industry

Option 2: Watch Expert Interviews

You can only choose 1 option and you must answer all the questions (A – D) associated with that option. Choose Option 1 or Option 2 below.

Step 8– Option 1: Interview an Expert in Your Industry

We have prepared an **Interview Guide** (*including a template for you to use when you message experts on LinkedIn or other platforms*).

The Interview Guide should help you prepare and conduct interviews with the industry expert. During the interview, take down notes to answer the following questions:

<u>Step 8: Option 1: Expert Interview Insights</u>
<p>(OPTION 1 A – D)</p> <p>A. From the expert's perspective, what is the demand for employees in this specialization, globally and locally?</p>

B. What kind of preparation did the expert undertake to get where s/he is today in their career?

C. What is one piece of advice for how I can be successful in the field?

D. What are my 2 biggest takeaways from the interview?

Step 8 – Option 2: Watch Expert Videos

We have prepared a YouTube playlist for each specialization:

- [Data Analytics/ Engineering and Science track](#)
- [Creative Tech track](#)
- [Cybersecurity track](#)

Choose 1 specialization's playlist and watch the videos from the playlist. As you watch the videos, answer the following questions:

Step 8: Option 2: Expert Video Insights

(OPTION 2 A – D)

A. What are the job prospects looking like for my specialization, globally and locally?

- **Job prospects: Growing globally, with demand in finance,**

healthcare, and tech industries.

B. What kind of preparation must I make to become successful in this industry?

- **Preparation: Strong foundation in Python, statistics, and cloud computing.**

C. What types of content do I need to consume regularly to keep up to speed with my industry?

- **Content to consume: Research papers, Kaggle competitions, industry blogs**

D. What are my 2 biggest takeaways from the videos?

Takeaways:

- 1. Continuous learning is essential.**
- 2. Networking and collaboration open career opportunities.**

Step 9: Information Exchange – Peer Activity #1

For your first peer activity, **find at least 1 peer, and ideally a group of 2 or 3**. We encourage you to find people who have chosen the same field/tech track as you, but it is ok if they have a different track. Please share your answers to Steps 1-8 with one another, then answer the questions in the Step 9 box.

Step 9: Information Exchange

A. List the first and last name of at least 1 peer that you met with for this activity: Chinadu Okafor, Adam Lecksy

B. What is one thing you learned from your peer/group?

Cybersecurity peers focus heavily on risk management and compliance.

C. What is one new question or curiosity about your industry that you have after exchanging information with your peer/group?

New curiosity: How do Data Scientists collaborate with Cybersecurity teams to detect fraud?



Please go back to Savanna and continue with your learning content. You will be prompted on when to return to complete Section B.

SECTION B: Personal Branding

Step 10: Personal Branding and Portfolio Website

In the box below, paste the link to your Portfolio Website.

URL Instructions

Make sure your webpage is live on the web (i.e. not simply a draft in your website builder). At a minimum, your website should contain:

- Your full name.
- A tagline briefly stating your professional identity
- A photo and additional information/sections are welcome, but *optional*.

The URL **should either be**:

- A **custom domain name**, for example, www.Kehindelbrahim.com
- A **shortened URL**, for example, <https://Bit.ly/Kehindelbrahim>
- A **free URL** that is clean and short, like <https://Kehindelbrahim.site.com>

Step 10: Personal Branding and Portfolio Website

<https://sites.google.com/view/lecksikermportfolio>

Once you have completed this worksheet:

1. Export/convert to .pdf.
2. Rename it per the instructions.
3. Upload to Savanna as your Milestone 11 Submission.
- 4. Celebrate a job well done!**

