**MACHINE LEARNING BEGINNER’S TOOLBOX**

For someone with python essentials knowledge and a good background in maths and statistics, the following are tools you need to have:

1. A structured data source:

* Kaggle (kaggle.com)
* Datacamp (app.datacamp.com)

1. Interactive Development environment:

* Jupyter Notebook
* Google Colab
* Visual Studio

1. Data Manipulation Libraries:

* Numpy
* Pandas
* Scipy

1. Data Visualisation Libraries:

* Matplotlib
* Seaborn

1. Machine Learning Libraries:

* Scikit-Learn
* TensorFlow
* PyTorch

1. Knowledge of Basic Machine Learning Algorithms:

* Supervised Learning Algorithm
* Unsupervised Learning Algorithm

**Where to learn Machine Learning?**

We are in 2024, there are a whole lot of places to learn Machine Learning and Artificial intelligence. What’s good and easy for me might not be for you, so you can explore as many places as possible to learn. Below is a guide for where to first look at:

1. LinkedIn Learning
2. Udacity
3. Udemy
4. DataCamp
5. FreeCodeCamp
6. YouTube Channels/Playlists

Some Big Tech companies offer courses on ML and AI but most are curated towards the products/service they offer. But they are also a good place to look at, below are some:

1. Microsoft Learn
2. AWS educate
3. Google Developers
4. Github

If you are interested in learning from what others have built, you can check:

1. Github
2. Kaggle
3. Zindi
4. Hugging Face

Some of these platforms provide competition spaces to apply your knowledge of ML and AI.

For those interested in reading books, there are variety of them out there. Some explaining majorly the theoretical concept while some provides hands-on coding explanation while others combine both. I’m not into reading books, but here are some that you might find useful:

* Machine Learning for Absolute Beginners
* MACHINE LEARNING 2 Books in 1: An Introduction Math Guide for Beginners to Understand Data Science Through the Business Applications
* Hands-On Machine Learning with Scikit-Learn & TensorFlow

**Additional Tips:**

* Start with the basics: Before diving into advanced topics, ensure you have a solid understanding of fundamental concepts.
* Practice, practice, practice: Machine learning and Artificial Intelligence are a hands-on field, so it's essential to practice what you learn by working on projects and experimenting with different algorithms.
* Join a community: Engage with other learners and experts in machine learning communities, forums, and online platforms to ask questions, share ideas, and stay updated with the latest developments.
* Remember, learning ML and AI takes time and effort, but it's an incredibly rewarding and valuable skill to acquire in today's tech-driven world.