Applied machine learning in practice - Nov 2021

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In general, steps in actions would be but not limited to :

1- Search topic with annotated and related topics and words in Google search engine

2- Filter out search into 4 main practical pages (Below Link) with appropriate phrase

3- Review (not details) related article in Google scholar and/or open- access Arxiv page

4- Borrow sample code(s) from GitHub or mostly from 4 main pages (Below Links)

5- Hyper parameter and Fine-tuning for at least two potential solutions (Keep looking and seeking for pre-trained model in near business problem in different resources like TensorFlow Hub , HuggingFace , ...)

6- Having first intuitive primary version as proof of concept (PoC)

7- Code modification to be in professional format (Class- Function , convenient naming, ...)

8- Code optimization (Appropriate data structure like json, hash data, trained model in Protocol buffer, I/O throughput a large scale "tf.data.Dataset" tf.keras.utils.image_dataset_from_directory, tf.io.gfile.glob,..., install and build packages from source,...)

9 - Deploy model at scale in production (Docker - Flask /FastAPI - Gunicorn - ALB - ELB - TFX - Cloud Computing " GCP . AWS. Azure")

10 - Quality Analysis

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4 main practical pages

https://towardsdatascience.com/
https://www.analyticsvidhya.com/
https://medium.com/
https://machinelearningmastery.com/