**Grey Literature Selection**

Artificial Intelligence Technical Debt

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Machine Learning Technical Debt

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Deep Learning Technical Debt

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Neural Network Technical Debt

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Data Science Technical Debt

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Artificial Intelligence Refactoring

1. My Machine Learning Model Is Perfect

<https://www.christianhaller.me/blog/projectblog/2021-01-16-ML_Perfect/>

Machine Learning Refactoring

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Deep Learning Refactoring

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Neural Network Refactoring

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Data Science Refactoring

1. Data Science Code Refactoring Example

<https://towardsdatascience.com/data-science-code-refactoring-example-14c3ec858e0c>

Artificial Intelligence Code Smell

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Machine Learning Code Smell

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Deep Learning Code Smell

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Neural Network Code Smell

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Data Science Code Smell

1. Common Code Smells in Data Science Projects and How to Fix Them

<https://levelup.gitconnected.com/common-code-smells-in-data-science-projects-and-how-to-fix-them-e1e3b2a2fd39>

Artificial Intelligence Code Quality

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Machine Learning Code Quality

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Deep Learning Code Quality

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Neural Network Code Quality

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Data Science Code Quality

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Artificial Intelligence Coding Best Practice

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Machine Learning Coding Best Practice

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Deep Learning Coding Best Practice

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Neural Network Coding Best Practice

1. Training Neural Networks: Best Practices

<https://developers.google.com/machine-learning/crash-course/training-neural-networks/best-practices>

Data Science Coding Best Practice

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Artificial Intelligence Coding Anti-pattern

1. 18 Common Python Anti-Patterns I Wish I Had Known Before

<https://towardsdatascience.com/18-common-python-anti-patterns-i-wish-i-had-known-before-44d983805f0f>

1. 4 Anti-Patterns in Python (And How to Avoid Them)

<https://betterprogramming.pub/4-anti-patterns-in-python-a6d5023c8473>

Machine Learning Coding Anti-pattern

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Deep Learning Coding Anti-pattern

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Neural Network Coding Anti-pattern

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Data Science Coding Anti-pattern

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Artificial Intelligence Common Coding Mistakes

1. Top 10 Coding Mistakes Made by Data Scientists

<https://towardsdatascience.com/top-10-coding-mistakes-made-by-data-scientists-bb5bc82faaee>

1. 5 Mistakes Programmers Make when Starting in Machine Learning Reinvent Solutions to Common Problems

[https://machinelearningmastery.com/mistakes-programmers-make-when-starting-in-machine-learning](https://machinelearningmastery.com/mistakes-programmers-make-when-starting-in-machine-learning/)/

1. 15 common coding mistakes data scientist make in Python (and how to fix them)

<https://towardsdatascience.com/15-common-coding-mistakes-data-scientist-make-in-python-and-how-to-fix-them-7760467498af>

1. How to avoid machine learning pitfalls: a guide for academic researchers

<https://arxiv.org/pdf/2108.02497.pdf>

1. What are common mistakes when working with neural networks?

<https://www.kaggle.com/general/196487>

Machine Learning Common Coding Mistakes

1. Top 10 Coding Mistakes Made by Data Scientists

<https://www.kdnuggets.com/2019/04/top-10-coding-mistakes-data-scientists.html>

1. Machine Learning Done Wrong

<https://ml.posthaven.com/machine-learning-done-wrong>

Deep Learning Common Coding Mistakes

1. What are common mistakes when working with neural networks?

<https://www.kaggle.com/general/196487>

1. Top 10 Coding Mistakes Made by Data Scientists

<https://www.kdnuggets.com/2019/04/top-10-coding-mistakes-data-scientists.html>

1. Most Common Neural Net PyTorch Mistakes

<https://medium.com/missinglink-deep-learning-platform/most-common-neural-net-pytorch-mistakes-456560ada037>

Neural Network Common Coding Mistakes

1. What are common mistakes when working with neural networks?

<https://www.kaggle.com/general/196487>

1. Most Common Neural Net PyTorch Mistakes

<https://medium.com/missinglink-deep-learning-platform/most-common-neural-net-pytorch-mistakes-456560ada037>

1. 37 Reasons why your Neural Network is not working

<https://www.kdnuggets.com/2017/08/37-reasons-neural-network-not-working.html>

1. Top 10 Coding Mistakes Made by Data Scientists

<https://www.kdnuggets.com/2019/04/top-10-coding-mistakes-data-scientists.html>

1. A Recipe for Training Neural Networks

<http://karpathy.github.io/2019/04/25/recipe/>

Data Science Common Coding Mistakes

1. Top 10 Coding Mistakes Made by Data Scientists

<https://www.kdnuggets.com/2019/04/top-10-coding-mistakes-data-scientists.html>

1. What are common mistakes when working with neural networks?

<https://www.kaggle.com/general/196487>

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[ "Technical Debt", "Refactoring", "Code Smell", "Code Quality", "Coding Best Practice", "Coding Anti-pattern", "Common Coding Mistakes"] with

TensorFlow:

1. Effective TensorFlow 2.0: Best Practices and What’s Changed

<https://blog.tensorflow.org/2019/02/effective-tensorflow-20-best-practices.html>

1. EffectiveTensorflow

<https://github.com/vahidk/EffectiveTensorflow>

1. Tf-bestpractice

<https://github.com/aicodes/tf-bestpractice>

1. More effective Tensorflow 2: Best practices and design patterns

<https://spell.ml/blog/more-effective-tensorflow-YDAaNxUAACYA5wpx>

1. Troubleshooting | The Most Common Errors in Tensorflow: Resolve it in Quick Steps

<https://sdsclub.com/the-most-common-errors-in-tensorflow-resolve-it-in-quick-steps/>

1. Extremely Stupid Mistakes I Made With Tensorflow and Python

<https://hanxiao.io/2017/05/19/Extremely-Stupid-Mistakes-I-made-with-Tensorflow-and-Python/>

1. Common issues

<https://www.tensorflow.org/hub/common_issues>

PyTorch:

1. pytorch-styleguide

<https://github.com/IgorSusmelj/pytorch-styleguide>

Scikit-learn:

1. Common pitfalls and recommended practice

<https://scikit-learn.org/stable/common_pitfalls.html>

NumPy:

1. Refactor your code with Numpy

<https://bond-kirill-alexandrovich.medium.com/refactor-your-code-with-numpy-9877e5e66d17>

1. [Numpydoc](https://numpydoc.readthedocs.io/en/latest/index.html)

<https://numpydoc.readthedocs.io/en/latest/format.html>

Pandas:

1. Stop Hurting Your Pandas!

<https://www.kdnuggets.com/2020/04/stop-hurting-pandas.html>

1. pandas code style guide

<https://pandas.pydata.org/docs/development/code_style.html>

1. Pandas\_style\_guide

<https://github.com/joshlk/pandas_style_guide>

1. DataFrame use Anti-Pattern

<https://gdevanla.github.io/posts/do-not-create-that-dataframe.html>

1. 6 Pandas Mistakes that Silently Tell You Are a Rookie

<https://towardsdatascience.com/6-pandas-mistakes-that-silently-tell-you-are-a-rookie-b566a252e60d>

1. What common mistakes do novices make when using the pandas python library?

<https://www.quora.com/What-common-mistakes-do-novices-make-when-using-the-pandas-python-library>

1. The 6 Top Pandas Mistakes for Pythons Data Scientists

<https://medium.com/@mownulprk/the-6-top-pandas-mistakes-for-pythons-data-scientists-5ee7bf5162>

1. Please Stop Doing These 5 Things in Pandas

<https://datascience4u.tistory.com/46>

SciPy:

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