**PE09: Programming Exercise**

**Instruction**

**Resource:**

* Noah G., Alfredo D. (2021). Practical MLOps. O'Reilly Media, Inc.
* Learn the basics. (n.d.). PyTorch: <https://pytorch.org/tutorials/beginner/basics/intro.html>
* Installing Miniconda. (n.d.). Miniconda: <https://docs.anaconda.com/free/miniconda/miniconda-install/>
* Zivkovic, S. (2021, November 8). #017 PyTorch - How to apply batch normalization in PyTorch. Data Hacker. [https://datahacker.rs/017-pytorch-how-to-apply-batch- normalization-in-pytorch/](https://datahacker.rs/017-pytorch-how-to-apply-batch-%20normalization-in-pytorch/)

Your task for this Programming Exercise is to achieve a similar behavior as HOS09A but with a different image file input called “bear\_low.jpg”. The result file name should be “bear\_high.jpg”

**Note**: The result might not be expected as a higher resolution due to the limitation of the model. However, you should be able to see some different results compared to the input file “bear\_low.jpg”.

**Submit the items below to the PE submission page:**

1. The GitHub link of your PE09 contents.
2. Provide a 20 to 50 words analysis or thoughts on PyTorch notebook from this module.
3. Make sure the PE module number and your name are written on the file name (e.g., "*PE01\_YourName.docx").*