BMM-24

Project review

Next meetings

- 10.12 Final project discussion
- 17.12 Final classes, discuss gradient flows, last talks

Final project discussion: what should be covered

- Answer to review(s), including Oleg's review, cross-review, review of V. V.
 Strojov
- Blog post must be ready to submit on https://towardsdatascience.com/ or medium.com
 - a. The resource to publish is discussable
- 3. Let's discuss plans for the libraries

Libraries: what's next

- 1. The simplest way: do nothing
- 2. Github provides a way to "publish" your libraries (at least get doi):
 - a. Pros: you get a doi, so potentially it would be easy to cite your code
 - b. Pros: we haven't tried yet, but it should be very easy to publish it
 - c. Cons: it will take some time (1-2 hours?)
 - d. Cons: nobody did it it yet in our department
 - e. Cons: not sure, but it looks like you need to archive this repository
 - f. If you want to publish, please write me
 - g. https://docs.github.com/ru/repositories/archiving-a-github-repository/referencing-and-citing-content

Libraries: what's next

- There are some journals that accept very short articles (2-3 pages) describing your software
 - a. Pros: Q3 paper with minimal amount of text
 - b. Cons: it will take more time than just publishing github DOI
 - i. It would suggest this for Relaxit and IRT*
 - c. Cons: this workflow is very risky, nobody did this in our department yet (Or Maybe Anton Khritankov)
 - d. If you want to try, I can help and find more suitable journal
 - e. Example: https://www.sciencedirect.com/science/article/pii/S2665963821000476

Libraries: what's next

- 4. For LLM and MDL projects:
 - a. It would be good to deploy the working prototype at hugging face spaces
- 5. For MDL project:
 - a. Since the project is quite interesting from the research side, I'd suggest make a blog-post or even a short paper
- 6. For Relaxit and BDC: Very risky: make a long-read (?) academical paper (?) with V.V. Strijov

Review: IRT, major points

- Von Mises and Mixture model: work incorrectly
- Think about re-publishing blog-post on towardsdatascience

Review: Relaxit, major points

- REINFORCE: not implemented actually
- Let's replace it with vanilla ST-estimator
- Laplace bridge: implemented in demo only

Review: MDL, major points

 The code structure is not clear, lack of tests, demo, comments, code duplicates

Review: ELBO with optimization operators

- The algorithms are not working, lack of tests, demo, comments, code
- Blog-post: when?

Review: Bayesian deep compression

- Third algorithm by Nikita?
- Renyi divergence not sure that it's correct

Review: LLM for graphical models

Let's add adaptor for open-source models