Natural Language Generation (NLG) using Normalizing Flows

Supervisor : Haris Jabbar

Examiner : Professor Hinrich Schütze

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Normalizing flows [1] have been developed to generate high fidelity images [2], showing their suitability for modeling and sampling continuous probability distributions.

Unlike images, text data is discrete in nature. While modeling discrete distributions through flows poses unique challenges, some progress has been made in that direction [3,4].

In this project, we want to use normalizing flows to improve the state of the art in NLG.

[1] https://blog.evjang.com/2018/01/nf1.html
[2] https://arxiv.org/abs/1807.03039
[3] https://arxiv.org/abs/1905.10347
[4] https://arxiv.org/abs/1901.10548