

LEARNING OBJECTIVES - Lecture 3 (Normalizing flows)

After attending lecture and completing the associated readings, you should be able to:

1. Discuss relationships between generators and density estimators in context of implicit/explicit representations.
2. Use techniques of transforming pdfs under nonlinear mappings to derive the main equations of normalizing flows
3. Use LOTUS property in context of normalizing flows
4. Describe evolution of densities in infinitesimal flows and in discrete flows
5. Draw and describe the GLOW architecture
6. Specify applications of normalizing flows, e.g. for generating datasets or finding Bayes optimal limits