A physics-informed data-driven model applied for gas dispersion. This code trains a Physics-Informed Data-Driven model to reproduce steady-state dispersion simulations of methane in the air using Deep Learning.

Dispersion: code for training the dispersion model. Separated in 2D and 3D dispersion simulations.

Cavity: code for training the lid-driven cavity model.

Libraries: deepxde, tensorflow, matplotlib.

Link for the dataset drive folder:

https://drive.google.com/drive/folders/1WQpwTHAzmj5V1dNw3pHyZoGkltkMSYq\_?usp=drive\_link