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- TEMP\_DATA: temperature data used for dnngp

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- nngp.cpp

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- libs: library files used for nngp.cpp

NETemp:

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- covariance\_matrix\_visualization\_data: code to generate data used for covariance matrix visualization

- covariance\_matrix\_approximation: code to compute and visulaize inverted covariance and approximate covariance matrices

- data\_visualization: code to visualize temperature data

Overview:

dnngp code slightly adapted from "response-matern" code taken from (Finley et al., 2019). dnngp code was run on the "Hamilton" Durham University HPC.

Citations:

Finley, A. O., Datta, A., Cook, B. D., Morton, D. C., Andersen, H. E., and Banerjee, S.

(2019), “Efficient Algorithms for Bayesian Nearest Neighbor Gaussian Processes,” Journal

of Computational and Graphical Statistics, 28, 401–414, pMID: 31543693.