Outline of model files for:

National livestock sector development is compatible with climate mitigation pledges: evidence from Tanzania’s dairy sector

**Description**

Folder contents include:

* Excel sheets (.xlsx) used in income accounting module, and
* Python files (.py & .ipynb) forming the core components of the model used to conduct livestock production system simulations.

Note: The .py files can be run in any python environment, and the .ipynb file can be run as a notebook in Jupyter.

**Contents**

**Excel**

* **Income per household by district (Income\_accounting\_#Mufindi, Mvomero, Njombe, Rungwe.xlsx)**

- Used to conduct dairy income calculations, household income, and uncertainty analysis for income estimates for each household across districts

**Python**

* **Simulation\_engine.py**

Runs *LivSim* and conducts land footprint and GHG accounting for each simulation unit.

* **Model\_run.ipynb**

Example of model instance and associated parameters used to run the simulations described in article.