Source Code & Additional Materials

Contents

S12.1 Source Code

This section contains details of source code for some software related to this research.

S12.1.1 AwAg Services

The `awagdata` and `awagml` services are implemented in a combined Python Flask application[1], **AwAg Services**. This is available at the following addresses:

- `doi:10.21954/ou.rd.28303898`
- `https://github.com/revisionist/ou-phd-code-awag-svc`

The application structure is based on Flask boilerplate from Idris Rampurawala[2]. Significant files are:

- **`awag_evaluation_processor.py`** – Used to run synthetic evaluations
- **`awag_stats_engine.py`** – Generates statistics from the stored research data; it contains the class `StatsEngine`, which is extended by the classes `StatsEngineExtended` and `StatsEngineExtendedDataFrames` – which generate statistics by classification and generate JSON/Excel stats packs respectively.
- **`dataset_manager.py`** – Manages datasets and fine-tuning content on OpenAI
- **`simulation_manager.py`** – Generates and retrieves synthetic content
- **`views.py`** – Implements `awagml` routes

[1] `https://flask.palletsprojects.com/` [`https://perma.cc/XC37-Q3ZT`]
[2] `https://github.com/idris-rampurawala/flask-boilerplate`, open-sourced under the MIT License

Exports of some Postman[3] collections for interacting with these services are located at:
doi:10.21954/ou.rd.28044944 [path: /study/postman]

S12.1.2 AwAg UI

The Training and Evaluation user interfaces for the study are provided by the **AwAg UI** application (`awagUi`). This is written in Angular[4] and is available at the following addresses:

- doi:10.21954/ou.rd.28303901
- https://github.com/revisionist/ou-phd-code-awag-ui

This UI uses AwAg Services as the back end.

S12.1.3 Simple Persistent Object Store

We built a simple JSON object store that was focussed on our specific needs. This is used in this project for fine-tuning related data. We have made it freely available under an Apache 2.0 license at:

- https://github.com/revisionist/python-apps/tree/main/flask/sposs

S12.2 LaTeX

A LaTeX template based on the files used to generate the thesis and supplement documents is available on GitHub at:

- https://github.com/revisionist/latex/blob/master/examples/phd-thesis/

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[3] https://www.postman.com/product/rest-client/ [https://perma.cc/8RQL-WAK3]
[4] https://angular.io/