Kaggle Graph

Release 0.1.0

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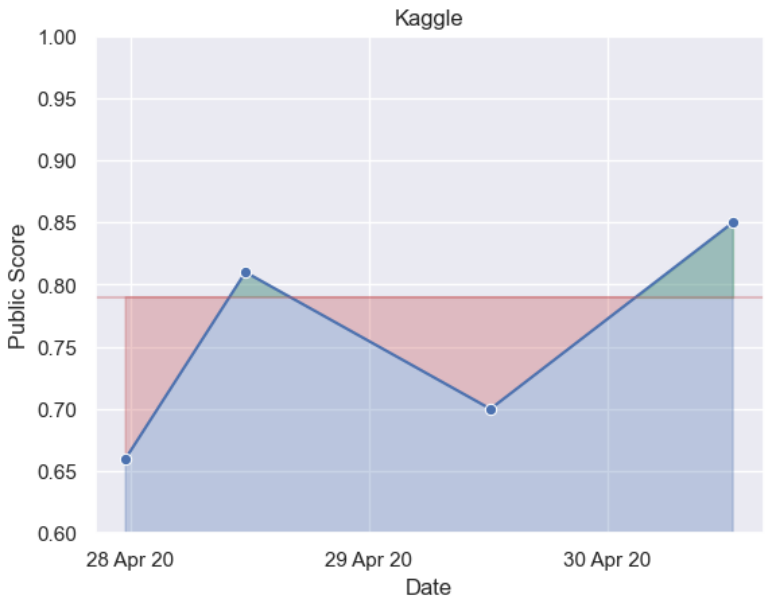
GitHub action to automatically generate graphs of your submissions to Kaggle competitions and display them in your Github repository's `README` to track your progress.



CHAPTER

ONE

USER GUIDE

1.1 Getting Started

1. Add the `KAGGLE_KEY` secret to your GitHub repository under `Settings > Secrets > Add a new secret`.
2. Define a GitHub workflow by adding a `.github/workflow/kaggle-graph.yaml` to your repository using the template below:

```yaml
name: Kaggle Graph Generation

on:
  push:
    branches: master
  schedule:
    - cron:  '00 00 * * *'

jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Git Checkout
        uses: actions/checkout@v2
      - name: Kaggle Graph Generation
        uses: OliverSieweke/kaggle-graph@v0.1.0
        with:
          KAGGLE_KEY: ${{ secrets.KAGGLE_KEY }}
          KAGGLE_USERNAME: oliversieweke
          KAGGLE_COMPETITION_ID: titanic
      - name: Git Auto Commit
        uses: stefanzweifel/git-auto-commit-action@v4.1.6
        with:
          commit_message: Automatic Kaggle graph generation
```

3. Add the graph to your `README`:

- **Markdown:**

```markdown
[!Kaggle Submissions Graph](./kaggle-submissions-graph.png)
```

- **reStructuredText:**

```rst
.. image:: ./kaggle-submissions-graph.png
    :alt: Kaggle Submissions Graph
```

Note:

- The `KAGGLE_KEY` key can be generated on Kaggle under `My Profile > Edit Profile > API > Create New Api Token`.
- The `KAGGLE_USERNAME` can be found on Kaggle under `My Profile > Edit Profile`.
- The `KAGGLE_COMPETITION_ID` can be read from the competition's URL.

Note: **Kaggle Graph** is designed to be used in conjunction with the following GitHub actions:

- checkout
- git-auto-commit

1.2 Configurations

The action can be further configured over the input keys below:

Name	Description	Required	Default	Type
`KAGGLE_USERNAME`	Kaggle username.	`true`	`-`	`str`
`KAGGLE_KEY`	Kaggle key.	`true`	`-`	`str`
`KAGGLE_COMPETITION_ID`	Kaggle competition ID.	`true`	`-`	`str`
`GRAPH_NAME`	Output graph file name.	`false`	`"kaggle-submissions-graph"`	`str`
`Y_MIN`	Y-axis minimum boundary.	`false`	`-`	`float`
`Y_MAX`	Y-axis maximum boundary.	`false`	`-`	`float`
`SCORE`	Score type.	`false`	`positive`	`str` (`positive` or `negative`)
`OBJECTIVE`	Score objective.	`false`	`-`	`float`

1.3 Troubleshooting

- **My graph does not update:** GitHub seems to be caching images. Although the graph updates, the display may take a couple of minutes to reflect the change.

1.4 References

- Creating and storing encrypted secrets
- Workflow syntax for GitHub Actions
- checkout action
- git-auto-commit action

CHAPTER

TWO

DEVELOPER GUIDE

2.1 Kaggle Graph

This is the top level module, which includes a `__main__` script to generate the Kaggle graph by loading the required environment variables (including the Kaggle credentials) using `kaggle_graph.action_inputs` and then composing the methods exposed in `kaggle_graph.plot` and `kaggle_graph.submissions`.

2.2 Indices

- genindex
- modindex

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