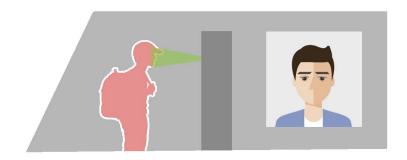
Image Analysis API

The Maryland Test Facility





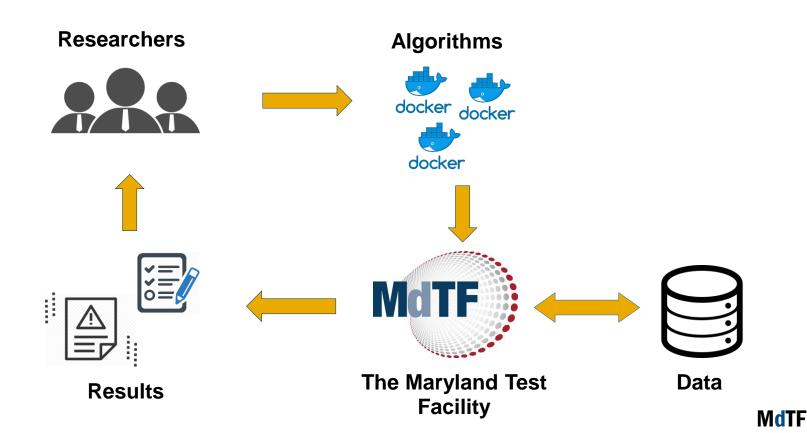


MdTF Image Analysis API

Goals:

- Provides a uniform interface for MdTF // DHS S&T research partners to submit image analysis algorithms to the MdTF
- Allows for rapid prototyping of research algorithms via the generic API
- Keeps MdTF datasets sequestered

Overview



Implementation Details

- Algorithms must:
 - Be provided in a docker image
 - Implement and expose the specified API
 - Be submitted via the MdTF upload page
 - Identify a valid dataset for evaluation
 - Provide consistently formatted output from the /v1/analyze-image endpoint (i.e. always return the same JSON object format)
 - Handle parallel requests

Results Format

- Results will:
 - Be returned in a CSV format via automated email
 - —One row per image submitted to the image analysis algorithm containing:
 - An image identifier
 - An error string (empty if no error is reported)
 - An additional column for each corresponding field reported by the /v1/analyze-image endpoint



Example

• Output of a /v1/analyze-image call for three separate images:

```
{
    "AnalysisScore": 5.0002,
    "NormalizedScore": 0.50002,
    "ErrorLog": ""
}
```

```
{
    "AnalysisScore": 0,
    "NormalizedScore": 0,
    "ErrorLog": "No Face Found"
}
```

```
"503: Service Unavailable"
```

Corresponding returned CSV, with headers:



Questions?

• For a timely response, please use the community email address info@mdtf.org