**Commercial Face Biometrics APIs**

**da/sec**

da/sec is the biometrics and internet security research group and is affiliated with University of Applied Sciences Darmstadt and the National Research Center for Applied Cybersecurity (ATHENE). The group is led by Prof. Dr. Harald Baier and Prof. Dr. Christoph Busch. The focus of the group is on highly innovative and applied IT security research in the special fields of biometrics, internet security and digital forensics. Read more on [www.dasec.h-da.de](http://www.dasec.h-da.de).

**Motivation & Goal**

In recent years, systemic biases inherent to several facial recognition systems have been reported in several preliminary studies. In this context, a biased algorithm produces statistically different outcomes (decisions) for different groups of individuals, e.g. based on sex, age, and ethnicity. The goal of this project is to collect a balanced database of synthetic (artificially generated) facial images and obtain demographic labels and other annotations for them using free-tier APIs of commercial products.

**Tasks**

- Survey of existing commercial facial recognition APIs
- Implementation of appropriate calls to the websites and APIs
- Synthetic database creation by generation or collection of existing images
- Annotation and balancing of the synthetic database using the supported APIs

**Requirements**

- High motivation and creativity
- Good programming skills
- Strong interest in research
- Good analytical skills

**By Date**

By now / by appointment

**Contact**

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