





Simone Milani Room 216 DEI A DIGITAL FORESICS AND BIOMETRICS A.A. 2024/2025

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AVAILABLE PROJECTS & REPORTS







Machine learning related



Deep-learning related



Possible topic for thesis

- The project will be assigned by the lecturer (in order to be considered valid).
- Please communicate project preferences and groups in advance using the appropriate forms on the moodle page of the course. Only one person per group needs to fill the form.
- Project assignment will take into account student preferences and project distribution (in order to assign an equal number of students to each title). Selection and assignment will follow a First Come Fist Served (FCFS) policy – i.e., your preferences will be satisfied depending on the submission time.



#4: AUDIO DEEPFAKE DETECTION

Given a database of synthetic/real audio, design a classifier that is able to distinguish fake audio from real one.

Dataset: https://www.asvspoof.org/index2019.html

Example software: https://github.com/sksmta/audio-deepfake-detection

https://github.com/Jerald-Golden/Audio-Deepfake-Detection

Project can be developed in Python, MATLAB.













Classifier can be done using CNN, RNN or simple SVM, random forest, etc... on Spectrograms or FFT frames.

Can use other sources: mention them!!!

Some original work need to be done!