SOFIA ELEFTHERIOU

Electrical And Computer Engineer

Major in the fields: Computer Systems, Computer Software, Communications and Computer Networks, Signals Control and Robotics

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sofiaeleftheriou13 🔗

https://github.com/sofiaele 🔗

EDUCATION

- **PhD Student**
  Athens University of Economics and Business
  Behavioral Analysis in Human Communication using Deep Learning
  Supervisors: Prof. Androutsopoulos Ioannis, Theodoros Giannakopoulos (Researcher)
  9/2022– Present   Athens, Greece
- **Electrical & Computer Engineering**
  National Technical University of Athens
  Integrated Master of Engineering (300 ECTS)
  - GPA: 7.6/10
  - Thesis: Machine Learning for Assessing the Quality of Speech with a Combination of Audio and Text Information (online link).
    Supervisors: Prof. Stefanos Kollias, Theodoros Giannakopoulos (Researcher)
  12/2014 – 06/2021   Athens, Greece
- **Erasmus+**
  Ghent University
  Department of Computer Science
  02/2019 – 07/2019   Ghent, Belgium
- **2nd General Lyceum of Haidari**
  High School Education
  Grade: $18^{9/10}/20$
  09/2011 – 06/2014   Haidari, Greece

PUBLICATIONS

- **Eleftheriou, S.**, Koromilas, P., & Giannakopoulos, T. (2021). Automatic Assessment of Speaking Skills Using Aural and Textual Information. In Proceedings of The Fourth International Conference on Natural Language and Speech Processing (ICNLSP 2021) (pp. 166-175)
- Moutti, M., **Eleftheriou, S.**, Koromilas, P., & Giannakopoulos, T. (2022). A Dataset for Speech Emotion Recognition in Greek Theatrical Plays. International Conference on Language Resources and Evaluation.
- Maria Moutti, **Sofia Eleftheriou**, Panagiotis Koromilas, and Theodoros Giannakopoulos. 2022. Cross-linguistic speech emotion recognition using CNNs: a use-case in Greek Theatrical Data. In Proceedings of the 15th International Conference on PErvasive Technologies Related to Assistive Environments (PETRA '22). Association for Computing Machinery, New York, NY, USA, 662–667.
  https://doi.org/10.1145/3529190.3534777

RESEARCH EXPERIENCE

- **Research Assistant** 02/2022 – Present
  NCSR "Demokritos", Institute of Informatics & Telecommunications, magcil group.
  "Smartsubs" (Speech emotion recognition, Speech to Text
- **Research Assistant** 07/2021 – 01/2022
  at National Kapodistrian University of Athens, Department of Psychiatry
  Speech Analytics for Phsyciatric disorders (in cooperation with Greek Medical School and NCSR Demokritos)
- **Machine Learning Intern** 09/2020 – 10/2020
  At NCSR "Demokritos", Institute of Informatics & Telecommunications, magcil group.
  Built a system to diagnose dyslexia via supervised reading

CONTRIBUTION IN SOFTWARE REPOSITORIES

1. readys
   A Speech Analytics Python Tool for Speaking Assessment (public)
2. deep_api
   Microservices API for Deep Learning architectures deployed inference (magcil private)
3. deep_audio_features
   Deep Learning for supervised audio embeddings extraction (public)
4. asr
   Automatic speech recognition using state-of-the-art deep learning techniques (magcil private)
5. RecSurvey
   Web app to record answers from survey participants (public)
6. audio_annotator
   Online UI tool to annotate Audio/Speech samples (public)
7. PuSQ
   A Public Speaking Quality dataset for assessing the speaker's skills (public)

TECHNICAL SKILLS

- **Programming Languages:**
  Python (5 repositories, 1 publication & 1 year working experience), C, C++, MySQL, UNIX shell scripting, Matlab
  Web Development:
  Node JS (1 repository), JavaScript (1 repository), HTML (1 repository), CSS (1 repository)

- **Tools, Frameworks & Technologies:**
  Pytorch (2 repositories, 1 publication & 1 year working experience), sk-learn (1 repository), Git, LaTeX, Linux, flask, docker, gRPC, Triton Inference Server, Jupyter

- **AI Application Domains:**
  - Speech Analysis (6 repositories, 1 publication & 1 year working experience)
  - Speech Recognition (1 repository)
  - Affect Recognition (2 repositories)
  - NLP (1 repository)

VOLUNTEERING

- **Panhellenic Space competition**
  Cansat In Greece
  09/2017 – 07/2018   Athens, Greece
- **Trainer Arduino Workshop**
  Spin Space Innovation
  10/2017   Athens, Greece
- **TedxNtua Conference**
  TedxNtua
  02/2018   Athens, Greece
- **Games Management System**
  Special Olympics Hellas
  05/2018   Athens, Greece
- **Motor Control**
  Prometheus Eco Racing Team
  NTUA
  10/2019 – Present   Athens, Greece

SOFT SKILLS

Communicative
Critical Mind
Creativity
Problem Solving

SEMINARS - TRAINING

- **Artificial Intelligence and Robotics**
  Panorama of Entrepreneurship & Career Development
  03/2018
- **Information Security**
  Panorama of Entrepreneurship & Career Development
  03/2018
- **HTLM5 and CSS3**

Tech Talent School – Microsoft Hellas
04/2018
- **Peoplecert - Business day**
  Panorama of Entrepreneurship & Career Development
  04/2018
- **Oracle - Business day**
  Panorama of Entrepreneurship & Career Development
  04/2018
- **Digital Marketing**
  Tech Talent School – Microsoft Hellas
  12/2019
- **IOT**
  Intracom Telecom
  12/2019

LANGUAGES

Language	Level
Greek	●●●●●●
English – C2	●●●●●●
French – B2	●●●●○○
Spanish – B1	●●●○○○

INTERESTS

Artificial Intelligence		Dance	
Travelling		Music	
Programming		Lifelong Education	