Nikolaos Gkanatsios

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Education

2011 – 2017	**National Technical University of Athens (NTUA)**, *ECE*, B.Sc. & M.Sc. (5-year degree), GPA 9.22/10, 9th among 328 in class, 1st in major.
2008 – 2011	**3rd Lyceum of New Heraklion, Attika**, *General Lyceum Graduation*, General Graduation Grade 19.9/20, General Panhellenic Examinations Grade 19.28/20, top 2% nationwide.

Master thesis

title	*Fine-Grained Action Recognition and Segmentation in Videos Combining Visual and Linguistic Features*
supervisors	P. Maragos, Professor ECE, NTUA
description	Experimentation with different visual and linguistic features and various fusion and classification methods to improve action recognition and segmentation on the challenging MPII Cooking Activities Dataset.

Professional Experience

Aug 2018 – Present	**Deeplab**, *Machine Learning Engineer*, Athens.
	○ Working on high-level semantic image representation, with application to Visual Relationship Detection, in collaboration with NTUA.
Aug 2018 – Present	**Computer Vision and Signal Processing Lab, NTUA**, *Research Intern*, Athens.
	○ Working on high-level semantic image representation, with application to Visual Relationship Detection, in collaboration with Deeplab.
	○ Working on Action Classification in videos, based on prior work in my Master Thesis.
Mar 2017 – Jul 2018	**METIS Cybertechnology S.A.**, *Artificial Intelligence Engineer*, Athens.
	○ Designed and developed the whole Natural Language Processing pipeline behind METIS's groundbreaking maritime chatbot.
	○ Developed several applications and APIs for METIS's products.
2013 – 2018	**Private Tutor**, Athens.
	Courses I have taught include:
	○ Maths (to high-school students)
	○ Physics (to high-school students)
	○ Programming (to undergraduate students of ECE)
	○ Artificial Intelligence and Natural Language Processing (to postgraduate students of Data Science and Computer Science Schools)

Publications

2018	Metis: A Scalable Natural-Language-Based Intelligent Personal Assistant for Maritime Services. *In Proceedings of the 24th International Conference on Information and Software Technologies (ICIST 2018).*

Talks

October 2018	ICIST 2018, Vilnius, Lithuania: oral presentation of the paper "Metis: A Scalable Natural-Language-Based Intelligent Personal Assistant for Maritime Services".
June 2018	VOXXEDDAYS Athens: A Scalable Maritime Platform Providing Services Through an NLP-Based Intelligent Personal Assistant

Honors and Awards

2018	Georgios Kontaxis Award for being the 1st in 2017 class in Electronics and Systems major, ECE NTUA.
2018	Christos Chalkias Award for being the 1st in 2017 class in Electronics and Systems major, ECE NTUA.
2017	EESTECH Challenge Athens 1st Prize for winning the Machine Learning Hackathon, hold by EESTEC Athens and ECE NTUA.
2012	Hellenic Physical Society Award for making the top 10 in the final round of the Panhellenic Physics Competition for high-school students on a nationwide level.
2010 – 2011	Awards from Hellenic Police for excellence in high-school classes.
2006 – 2011	High-school awards for excellence in high-school and pre-high-school classes.
2006 – 2011	High-school awards for being the 1st in class.

Other Projects

I have run multiple projects in Intelligent Systems, Robotics and Electronics. Some of them can be viewed in my personal webpage https://nickgkan.github.io.

Areas of Interests

Computer Vision, Machine Learning, Natural Language Processing, Pattern Recognition

Programming

(Experienced) Python, Matlab / (Basic) C, Javascript (NodeJS), SQL / Keras, Tensorflow, PyTorch

Languages

Greek (Native)
English (Michigan Certificate of Proficiency in English)
French (Delf B1)

Personal

Basketball, drumming (self-taught), bass guitar (self-taught), ancient Greek literature, music transcription (mostly drums), Greek traditional dancing.