

Dimitris Kavelidis

Frantzis

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📍 Sarantaporou 29, Thessaloniki 🌐 LinkedIn 🐙 GitHub

👤 PROFILE

Creative and perspicacious engineer with a human-centric approach on the research & development of new technologies. Focused on understanding the bigger picture of problems first and then providing innovative, applied solutions, with high attention to detail. Proud open-source contributor.



PROFESSIONAL EXPERIENCE AND TRANSFERABLE SKILLS

R&D Engineer,

Intelligent Systems & Software Engineering Labgroup (ISSEL) ☑

Nov 2021 – present | Thessaloniki, Greece

--- Research work as part of my thesis and beyond it.

Responsibilities:

- Creation of interview protocol for early-stage dementia patients
- Data Collection by conducting interviews and recording patients, Data Annotation and Data Cleaning
- Feature Engineering using Digital Signal Processing
- Development and deployment of Machine Learning models for diagnostic predictions

Key Achievement:

- Developed a new cognitive decline detection screening test for early stages of dementia, based on speech (achieving 94.1% accuracy for Healthy controls vs MCI)

Publications and Presentations:

- "Cognitive decline detection using speech features: A machine learning approach" at HELINA 7th Panhellenic Conference «Acoustics 2022», Thessaloniki, October 2022
- “Αναγνώριση Νοητικής Έκπτωσης μέσω Χαρακτηριστικών Ομιλίας” at 13th Panhellenic Conference of Alzheimer’s Disease (PICAD) and 5th Mediterranean Conference on Neurodegenerative Diseases (MeCoND), Thessaloniki, February 2023

Ski Coach - Activity Leader, Irbis Outdoor Activities ☑

Jan 2017 – present | Thessaloniki, Greece

--- Providing ski lessons for children and organizing outdoor activities .

Skills acquired: Lesson plan creation, Feedback process, Writing evaluation reports

Youth Leadership Trainer, YMCA Thessaloniki ☑

Nov 2016 – Jun 2020 | Thessaloniki, Greece

--- An intense, personal development and experiential learning program for children (ages 13-16).

Skills acquired: Variation of soft-skills from SYNERGY method, Worked with different group dynamics

🎓 EDUCATION

Diploma/MEng in Electrical & Computer Engineering (8.44/10),

Aristotle University of Thessaloniki ☑

2017 – 2022 | Thessaloniki, Greece

Focused on: Digital Signal Processing, Machine Learning, Biomedical Topics, Data Analysis, Control Theory, Robotics

Thesis: "Cognitive decline detection using speech features: A machine learning approach" ☑

📄 CERTIFICATES

IBM DevOps and Software Engineering Professional

Certificate ☑ — In progress - Expected 06/23 |

Deep Learning with Python and Keras ☑ |

Deep Learning and Computer Vision for Drone Imaging and Cinematography" ☑

📁 PROJECTS

"Analysis of the Music Stimuli Effect on Head Micromotion" ☑

"Ivy - The Unified Machine Learning Framework" Open-source contributor ☑

"Covid Positivity Rate Data Analysis in Europe" ☑

"Omnidirectional Mobile Manipulator in a Pick and Place Task" ☑

"Online and Offline Estimation of System's Unknown Parameters" ☑

🧠 TECHNICAL SKILLS

Python	● ● ● ● ●
MATLAB	● ● ● ● ●
C++	● ● ● ● ●
Control Theory / Robotics	● ● ● ● ●
Modeling and Simulation	● ● ● ● ●
Git	● ● ● ● ●
SQL	● ● ● ● ●
Linux	● ● ● ● ●
CI/CD	● ● ● ● ●

🌐 LANGUAGES

Greek — Native | English — Fluent

🔑 INTERESTS

~ Live Looping Ninja | ~ Rock Climbing |

~ Freeride Ski Veteran | ~ Surfing Bird