



# ANTIGONI KARAGIANNAKI

MSC COMPUTER SCIENCE STUDENT

## CONTACT

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- 📍 Odense, Denmark
- 🌐 [Personal WebSite](#)

## TECH SKILLS

- Python
- Java
- C/C++
- PowerBI/Orange/Excel
- GoLang
- Node.js/TypeScript
- SQL
- Git, Linux

## COURSES

- Data Science & Applications
- Optimization
- Privacy Preserving Algorithms
- Information Retrieval Systems
- Information System Analysis & Design
- Files & Databases
- Object-Oriented Programming
- Human-Computer Interaction

## PROFILE

MSc Computer Science student at the **University of Southern Denmark**, with a strong interest in machine learning and data-driven analysis. Experienced in Python-based data processing and statistical modelling through academic projects & research assistance. Available to work 15 h per week from 31<sup>st</sup> of August .

## EDUCATION

- **University of Southern Denmark** 2026 - PRESENT  
MSc, Computer Science
- **University of Crete** 2020 - 2025  
BSc, Computer Science
  - Undgraduate Thesis : *read below*

## WORK EXPERIENCE

- **(STEM) Computer Science Educator** 10/2024 - 02/2025  
3<sup>rd</sup> General High School of Heraklion, GR
  - **Communication** - Teaching Programming Basics to students. Instructing them on how to solve problems.
  - **Organizational Task** - Developed lesson plans. Graded multiple student projects, tests & exercises.
  - **Results:** Assisted in the education of more than 40 students, guided them on how to get accepted into CS Departments .
- **Research Assistant** 07/2023 - 09/2023  
(TNL Lab) ICS-FORTH HELLAS
  - **Analytical Tasks** - Data analysis & visualization of neural data from a partnering lab. (with python, SVMs)
  - **Statistical Work** - Working up data for lab reports.
  - **Communication** - Weekly Team Presentations, Volunteering for Symposium Events of our Institute.
  - **Results:** Contributed to reports which secured new contracts.
- **Undergraduate T.A.** 02/2023 - 07/2023  
CSD, University Of Crete
  - **Organizational Tasks** - Conducted lab sessions. Held office hours. Provided individualized support to students struggling.
  - **Results:** Assisted with the overall course completion.

## LANGUAGES

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- Greek (Native)
- English (C2)
- French (B2)
- Danish (learning)

## CERTIFICATES

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- **Generative AI Technologies & Tools in Practice** – Code.Hub, Dec 2025  
( cred-id: 25C019697 )
- **AWS Cloud Coursework**  
( Oct 2025 – Present )
- **Certificate of Pedagogical and Teaching Competence**  
( June 2025 )

## VOLUNTEERING - CLUBS

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- Ungdomshuset, Odense Kommune
- Folkekøkken i Odense
- Odense Kulturfestival
- Member of Greek Society, Denmark

## REFERENCES

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Available Upon Request

## PROJECTS

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### BSc Thesis

“Deep Active Learning Algorithms on Imbalanced Data”

- **Analytical tasks** - Designed an experimental framework to evaluate deep active learning strategies on the UC Merced Land Use image dataset.
- **Technical work** - Implemented Python pipelines for image loading, preprocessing, and analysis; compared advanced sampling methods with random sampling. (PyTorch)
- **Statistical evaluation** - Assessed model performance using multiple metrics under different data selection strategies.
- **Results:** Demonstrated how targeted sampling can improve training efficiency when labelled data is limited.
- **Tools:** Python, Machine Learning, Data Analysis  
[\[ more Github - UnderGrad\\_Thesis.pdf \]](#)

### Project for Gen AI Tech & Tools in Practice Certification Sales Prediction using Machine Learning

- **Analytical task** - Explored relationships between advertising investments (TV, radio, newspaper) and product sales using the Advertising Dataset.
- **Technical work** - Built and evaluated predictive models in Orange using a full ML pipeline including data preparation, model training, and evaluation.
- **Statistical analysis** - Assessed model performance & interpreted how different marketing channels influence sales.
- **Result:** Demonstrated how M.L. models can support data-driven advertising investment decisions.
- **Tools:** Orange, Machine Learning, Data Analysis

## PERSONAL PROFILE

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In my free time, I enjoy gardening and spending time outdoors, as well as swimming and playing water polo.

### FUN FACT

*I'm usually the friend who solves everyday problems by writing a small Python script - from merging friends' calendars to calculating whether a commuter train pass is worth it.*