Chryssa M. Nampouri

MACHINE LEARNING ENGINEER

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Education

University of Groningen *Groningen, the Netherlands*

MSC IN COMPUTING SCIENCE (2-year degree; 120 ECTS) *Sept 2021–Aug 2023*

- Grade: 8.0 / 10.0
- Track: Intelligent Systems and Visual Computing
- Thesis: *Contrastive self-supervised learning for outcome prediction of patients with oropharyngeal squamous cell carcinoma*
- Supervisor: Prof. Jiapan Guo

Athens University of Economics and Business *Athens, Greece*

BSC IN MANAGEMENT SCIENCE AND TECHNOLOGY (4-year degree; 240 ECTS) *Oct 2015–Jan 2020*

- Grade: 8.1 / 10.0
- Thesis: *Customer Churn Management: A Machine Learning Perspective*
- Supervisor: Prof. Emmanouil E. Zachariadis

Work Experience

University Medical Center Groningen *Groningen, the Netherlands*

COMPUTER VISION INTERN | RADIATION ONCOLOGY *Mar 2023–Aug 2023*

- Conducted experiments on advanced self-supervised learning methods for medical image analysis using deep neural networks.
- Pre-trained models under various contrastive learning frameworks on 3D CT scans, employing CNN and Vision Transformer architectures.
- Fine-tuned pre-trained models for prognostic outcome prediction in patients with oropharyngeal cancer.
- Achieved a **15% increase** in accuracy compared to the state-of-the-art methods.
- Technologies used: Python, PyTorch, MONAI

University of Groningen *Groningen, the Netherlands*

TEACHING ASSISTANT | FACULTY OF SCIENCE AND ENGINEERING *2021–2023*

- *Introduction to Machine Learning* (Undergraduate level)
- *Introduction to Scientific Computing* (Undergraduate level)
- *Neural Networks and Computational Intelligence* (Graduate level)
- *Pattern Recognition* (Graduate level)

Vodafone Greece *Athens, Greece*

DATA SCIENTIST | VODAFONE ANALYTICS TEAM *Feb 2020–July 2020*

- Designed and implemented propensity machine learning models to optimize customer journey actions.
- Developed an IoT-based predictive maintenance model for retail assets of Vodafone Innovus.
- Worked on the location intelligence software of Vodafone: assisted in the software debugging, customization, and implementation processes in close cooperation with Big Data Vodafone Group.
- Converted raw mobile network data into actionable community mobility insights.
- Technologies used: Python, TensorFlow, scikit-learn, PySpark, QGIS

DATA SCIENCE INTERN *Nov 2019–Feb 2020*

- Developed an end-to-end machine learning pipeline for customer churn prediction.
- Analysed customer satisfaction data extracted from Medallia software platform.
- Built a dataset integrating customer information from various data sources for the training processes.
- Technologies used: Python, TensorFlow, Keras, scikit-learn

Skills

Programming (4 years)	Python (expert), MATLAB (intermediate), Java (intermediate), C/C++ (elementary), SQL (expert)
Frameworks (4 years)	PyTorch (expert), TensorFlow, MONAI, scikit-learn, OpenCV, PySpark
Big Data Management Systems	Hadoop, Redis, Neo4j, Azure Stream Analytics
Business Analytics Tools	Power BI, QGIS
Miscellaneous	LaTeX (expert), Git
Languages	Greek (native), English (fluent), German (basic)