



Theatina Kylafi

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🌟 AI Solutions Engineer, multidisciplinary background in Language Technology, Data Science, & Business Analysis 🌟

PROFESSIONAL EXPERIENCE

AI Solutions Engineer

Focusing on end-to-end design, development, and evaluation of sophisticated AI pipelines, including multi-agent workflows, and production-grade Retrieval-Augmented Generation (RAG) systems. Building scalable ETL data pipelines to transform raw enterprise data into structured intelligence. Utilizing tools like LangGraph, LangSmith, LangFuse, Prompt Flow and Grafana to build custom evaluation testbeds and ensure data-driven observability across complex enterprise domains.

Netcompany
Oct 2024 – Present

IT Business Analyst

Translating enterprise business needs into technical blueprints using BDD/Gherkin methodologies. Bridged the gap between enterprise business value and technical implementation by contributing in full project lifecycles for software solutions across international telecommunications, finance, legal and insurance industry clients.

Netcompany
Dec 2022 – Sep 2024

Researcher

Evaluated international digital accessibility compliance for academic software infrastructure. Authored comprehensive technical audit reports providing actionable recommendations for inclusive university digital resource deployment.

National Kapodistrian University of Athens (NKUA)
Oct 2021 – Feb 2022

Data Scientist / Research Intern

Developed Music Information Retrieval (MIR) algorithms and optimized Deep Learning architectures for scientific research. Engineered ETL workflows to process and analyze complex musical data, contributing to peer-reviewed domain publications.

ATHENA Research Center
Jul 2019 – Jan 2021

TECHNICAL STACK & SKILLS

Tools & Frameworks

🔧 LangChain | PromptFlow | LangGraph

📊 Grafana | Langfuse | LangSmith

🧠 Deep Learning | TensorFlow | Keras

🗃️ Rasa (Dialogue Systems)

☁️ Azure AI Services Pandas | NumPy

📖 NLTK BeautifulSoup

🗄️ MongoDB | PostgreSQL

📋 Jira | Confluence Git

🏗️ Gherkin | Behavioural-Driven Development

🐍 Python SQL | C | C++ | Bash

Soft Skills

Critical Thinker Problem Solver

Team Player Adaptable & Curious

Creative Logic Design Thinking

Observability Mindset

Languages

●●●●● Greek (Native)

●●●●○ English (C2 - Professional)

●●○○○ French (B1 - Intermediate)

Beyond the Screen

🎵 Piano • Choral Singing


📖 Neuroscience • Psychology • Philosophy

📷 Photography

EDUCATION

M.Sc. in Language Technology

Advanced interinstitutional program combining theoretical computational linguistics with hands-on AI engineering. Core curriculum spans Deep Learning architectures for text processing, Large Language Model optimization, Speech Synthesis and Recognition, and scalable Big Data Management frameworks. Focuses on building production-ready NLP systems, neural text pipelines, and intelligent interactive agents.

National Kapodistrian University of Athens (NKUA) & Athena Research Center (ILSP)
In Progress 

B.Sc. in Informatics & Telecommunications

Rigorous academic framework specializing in software engineering patterns, algorithmic data structures, advanced system architecture, and machine learning principles. Concluded with a high-impact B.Sc. Thesis combining Deep Learning and real-time interactive systems, resulting in a co-authored journal publication.

National & Kapodistrian University of Athens 
Completed 

Classical Piano Degree

Advanced conservatory curriculum focused on masterful repertoire performance, structural analysis of musical forms, precision technique, and expressive interpretation logic.

National Conservatory 
Completed 

CERTIFICATIONS & TRAINING


IEEE CertifAIEd™ Foundations

Validated core competencies in AI ethics assessment frameworks, responsible AI design methodologies, and algorithmic accountability principles.

IEEE Standards Association · 04/2025 

watsonx.data Technical Sales Intermediate

Trained in enterprise data governance, high-performance Lakehouse architectures, and building integrated, data-driven decision systems.

IBM · 10/2024 

AWS Academy Cloud Foundations

Certified foundation covering core concepts of cloud computing, global infrastructure security, compliance protocols, and cloud architecture design.

Amazon Web Services · 03/2021 

PROJECTS & RESEARCH

iJazzARTIST: Intelligent Jazz Accompanist (B.Sc. Thesis)

Developed a real-time, human-computer interactive music improvisation system for jazz piano accompaniment. Engineered automated parsing models and neural networks to enable real-time generative composition responsive to live human inputs.

github.com/theatina/iJazzARTIST 

Stress & Emotion Detection NLP Pipeline

Built a deep learning text-classification architecture for anxiety and depression detection using the Dreddit dataset. Implemented and benchmarked CNN, BiGRU, and BiLSTM neural pipelines integrated with BERT/Word2Vec text embeddings and LIWC-driven feature engineering.

github.com/theatina/Stress_Detection 

CryptoRecommendation System

Engineered a custom recommendation and predictive framework utilizing text mining algorithms to extract user sentiment analytics from real-time cryptocurrency Twitter streams, validated using rigorous 10-Fold Cross-Validation models.

github.com/theatina/CryptoRecommendation 

DistilBERT Question-Answering Model

Fine-tuned and optimized a custom DistilBERT question-answering infrastructure leveraging the SQuAD 1.1 dataset benchmark for high-accuracy contextual validation and NLP query parsing.

github.com/theatina/distilBERT_QnA 

Aspect-Based Sentiment Analysis (ABSA)

Designed fine-grained aspect extraction and sentiment parsing pipelines to map structured entity relationships, identify targeted consumer opinions, and extract granular insights from natural language data streams.

github.com/theatina/ABSA 