

Louis-Kosmas Meta

Software Engineer | [website/lkmeta.me](https://www.lkmeta.me) | [github/lkmeta](https://github.com/lkmeta) | [linkedin/lkmeta](https://www.linkedin.com/in/lkmeta) | louiskmeta@gmail.com | +30 697-482-8912

EXPERIENCE

Cogninn

AI Engineer

Larissa, Greece

Sep 2023 - Present

- Led the development of **AutoDL**, a web platform managing diverse data inputs (images, text, videos, tabular data), and architected ML/DL pipelines, resulting in increased model training accuracy and significant business impact.
- Implemented complex image processing tasks (classification, object detection, segmentation, OCR) and text analysis functionalities (classification, summarization).
- Engineered video object detection and tabular regression capabilities, increasing processing speed by 15%.
- Deployed RESTful API endpoints using FastAPI and integrated MongoDB and SQLite for effective data storage.

Self-employed

Freelancer

Remote, Greece

Jan 2023 - Sep 2023

- Delivered Deep Learning projects using NLP, Computer Vision, and Data Analysis for various clients.
- Instructed over 50 university students in AI, Maths, and Programming, achieving 95% positive feedback and significantly enhancing student performance.

NET2GRID

Embedded Systems Engineer

Thessaloniki, Greece

Oct 2021 - Jun 2022

- Collaborated with a 6-member team and developed an embedded firmware library for IoT device ESP32 using C.

Embedded Systems Engineer Intern

Jul 2021 - Sep 2021

- Connected Amazon Web Services (IoT Core, DynamoDB, API Gateway, Lambda) with IoT devices, enhancing system capabilities.
- Developed and managed a Greengrass Group with Core and Edge devices, optimizing system performance.
- Built MQTT bridge connections and implemented a Sequential Keras Model for accurate predictions, improving data communication and analysis.

EDUCATION

M.Eng. Electrical and Computer Engineering

Aristotle University of Thessaloniki

Thessaloniki, Greece

Sep 2017 - Feb 2023

- Graduated with Great Distinction, GPA: 8.68/10.0 (Top 6%)
- Thesis: System Development for Prediction of Static Analysis Metrics of Source Code

ERASMUS+ Exchange Programme

University Carlos III de Madrid

Madrid, Spain

Feb 2021 - Jun 2021

- Courses: Software Development Projects Management, Systems Programming, Microprocessor based digital Systems

PROJECTS

Txtify | AI-powered audio and video transcription app

Jun 2024 - Present

- Built an open-source web application to transcribe audio and video files to text using AI models like Whisper.
- Achieved high-accuracy transcriptions, multi-language support, and various output formats.
- Tech stack: Python, FastAPI, Whisper, SeamlessM4T, HuggingFace, Docker, JavaScript, DeepL

JoyFill | NLP-powered sentence enhancement tool

Aug 2024

- Created an open-source web application to enhance sentences by providing positive suggestions using BERT for fill-in-the-blank generation and DistilBERT for sentiment analysis to filter out negative suggestions.
- Integrated secure user authentication, scalable Docker deployment, and performed load testing ensuring stability.
- Tech stack: Python, FastAPI, BERT, DistilBERT, HuggingFace, Docker, Kubernetes, Locust, OAuth 2.0

AWARDS

Scholarship from the bequest Georgios Vrakas

Awarded for academic excellence, receiving a total of €15,000.

Thessaloniki, Greece

2020 - 2022

MISCELLANEOUS QUALITIES AND SKILLS

Programming Languages

Python, JavaScript, C/C++, SQL, Java, Bash, MATLAB, Assembly(MIPS)

Libraries

NumPy, TensorFlow, PyTorch, Pandas, HuggingFace, Matplotlib, sklearn, FastAPI

ML Techniques

AutoML, Explainable AI, Neural Architecture Search, Federated/Transfer Learning

Technologies

Git, VSCode, Jupyter Notebook, AWS, Docker, Kubernetes, MongoDB, SQLite

Languages

Greek (Fluent), Albanian (Fluent), English (Professional)

Interests

Video Editing, Photography, Sports, Volunteering, Cultural Travel