Orest Mucaj

Computer Science Student

Currently pursuing a degree in Computer Science at the National and Kapodistrian University of Athens, with a strong focus on Machine Learning and Data Analysis , alongside a growing interest in Backend Engineering . I am actively seeking entry-level opportunities to fulfill my degree requirements and gain practical experience. I have successfully **completed my mandatory military service** , and I'm now fully committed to advancing my professional career.

✉ moutsai.orestis@gmail.com

📍 Athens, Greece

🔗 github.com/orestmucaj

📱 +30 6980116854

in linkedin.com/in/mucaj-orest-26846021b

EDUCATION

Computer Science
Department of Informatics and Telecommunications, National and Kapodistrian University of Athens

Expected Graduation: 2026

PERSONAL PROJECTS

Sentiment Classification of Tweets (2025)
- Sentiment Analysis using **TF-IDF** with **Logistic Regression** – *Validation Accuracy: 0.8064*
- Sentiment Analysis using a simple **Feed Forward Neural Network** with **GloVe** embeddings – *Validation Accuracy: 0.8009*
- Sentiment Analysis using **BERT** – *Validation Accuracy: 0.8639*
- Sentiment Analysis using **DistilBERT** – *Validation Accuracy: 0.8489*

Inter Process Communication Manager (2024)
- Developed a **C-based process management system** that dynamically spawns, terminates, and manages child processes based on file commands.
- Implemented **Inter-Process Communication (IPC)** using **shared memory and semaphores** for efficient, synchronized data exchange.

Job Executor (2024)
- **Developed a multi-threaded C application** for the remote execution of Unix commands with controlled concurrency.
- **Built a client-server architecture** using **TCP/IP sockets** for asynchronous command submission and output delivery.
- **Implemented a thread pool with pthreads** , managing job allocation and concurrency with **condition variables** (producer-consumer model).

Record Storage System (2024)
- **Designed and implemented a primary B+ Tree indexing system in C** , managing record storage and retrieval at the block level for a custom database.
- **Developed core B+ Tree operations** , including efficient insertion (handling splits and duplicate key rejection) and traversal-based search functionalities.

SKILLS

`Linux` `Git` `C` `Python` `NLP` `Scikit-learn` `PyTorch`

CERTIFICATES

Goethe-Zertifikat B1 (12/2017)
Goethe-Institut e.V.

Certificate of Proficiency in English (05/2017)
University of Michigan

LANGUAGES

Greek
Native

Albanian
Native

English
Full Professional Proficiency

German
Limited Working Proficiency

INTERESTS

`Coding` `Technology` `Travelling` `Finance` `Football` `Festivals` `Volunteering`