Eva Dourou
Software Engineer, M.Sc.

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Summary

Computer engineer and technology buff with two years of professional experience as a full-stack developer. Spearheaded the development of mobile versions for existing web applications in a vast range of sectors, optimizing users' experience and significantly enhancing user engagement. Equipped with academic expertise in machine learning and hyper-parameter optimization, and driven by a passion for AI-powered solutions. Eager to deepen my abilities and continue expanding my skillset to create cutting-edge solutions.

Education

Computer Engineering and Informatics Department (**CEID**), 5-yr study program, leading to a Dipl. Eng. Degree, University of Patras, Greece, grad. December 2022

Notable Academic Projects

Classification of frailty in older adults, using activity tracking data from Bluetooth beacons(thesis)
Researched, designed, implemented and tested a complete machine learning system comprising of: feature engineering, data preprocessing, feature selection, hyper-parameter optimization and classification. Subject was the participant's (older person) frailty index estimation, utilizing timestamped location data from inside the patients' homes. Worked with unbalanced data and a small number of instances. Both traditional classifiers and Artificial Neural Networks were used. Bayesian optimization was utilized for hyper-parameter tuning. Additionally, adverse events for the participants' health were predicted using Convolutional Neural Networks on 3D tensor data in the context of Multiple Instance Learning. The best model succeeded in predicting the class label with over **98% accuracy**.

Crawling and Indexing System for News Webpages.
Created a web scraping and indexing system using a web crawler that collects articles from news pages and stores them in a database, a page index that organized the scraped webpages and a subsequent query system for the retrieval of the collected articles. The project includes a text processing module and a search engine module.

Experience

INTRACOM TELECOM – Full-Stack Developer   *2022 – Present*

- Worked with clients to translate requirements into functional specifications and design novel application features
- Developed back-end services for processing a wide array of sensor measurements
- Integrated server communication with IoT devices on the field
- Built front-end web applications to deliver analyzed data to clients
- Optimized UI/UX for mobile users, delivering separate apps for iOS and Android
- Managed deployment to production and monitored new application versions

CEID University of Patras – Teaching Assistant   *Q4 2023 – Q2 2024*

- Tutored classes for Databases and Data Mining in University of Patras

Skills

- Programming and Scripting Languages: Java, Python, JavaScript, HTML, CSS, Bash
- Databases: SQL, Maria DB, Influx DB, mongodb
- Operating Systems: Ubuntu Linux, Windows
- Technologies and Frameworks: SpringBoot, Docker, REST APIs, Thymeleaf, keras, scikit-learn
- Miscellaneous Software: Wireshark, Postman, Wamp, Office suites
- Other Skills: AGILE Methodology

Languages

- Certificate of Proficiency in English, Cambridge University (C2)
- Goethe-Zertifikat B2