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Octavian Marina

Data Scientist

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Technical Skills

Languages Python, SQL, Java, JavaScript

Tech Stack Git, Bash/Zsh, Snowflake, AWS, Jupyter Notebook (Anaconda), LangChain, Flask, HuggingFace

Experience

Software Engineer **March 2023 — Present**
Info World *Cluj-Napoca, Romania*

- Contributed to DICOM-compliant medical imaging software in the PACS suite, enabling efficient storage, retrieval, and visualization of radiological data.
- Deployed an abdominal organ segmentation model for CT imaging within the web-based PACS platform, directly supporting the successful outcome of a competitive bidding process.
- Integrated MONAI to enable overlay visualization of segmented abdominal organs on DICOM CT images in the web app.
- Developed Python scripts to integrate a medical language LLM as a chat assistant for physicians, enabling context-aware interaction.
- Implemented two-factor authentication, enhancing security and aligning with healthcare data protection standards.
- Enabled cross-platform support by adapting the application for stable operation on macOS and Linux.

Education

Bachelor's Degree in Computer Science, *Babeș-Bolyai University* July 2024
Master's Degree in Applied Computational Intelligence, *Babeș-Bolyai University* Expected July 2026

Relevant Projects

IMDb Reviews Sentiment Classifier **2025**
Streamlit app that scrapes IMDb reviews and performs real-time sentiment analysis with interactive visuals.

- Built a Streamlit web app to scrape IMDb reviews and classify sentiment using TextBlob.
- Automated review extraction with Selenium and BeautifulSoup for accurate, real-time data.
- Visualized sentiment trends using Altair, improving clarity and user interaction.

Medicortex – Medical Literature Search Assistant **2024**
iOS app using BERT to extract MeSH terms from natural language and retrieve PubMed articles.

- Trained a BERT model on 1M+ PubMed articles to extract standardized MeSH terms.
- Integrated with a native Swift app and Django backend using PubMed's E-Utilities API.
- Allowed users to query in natural language and receive relevant medical literature.