Boiciuc Tyby-Dany

AI & LLM Enthusiast

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PROFILE

Self-motivated Computer Science student (3rd year) with a strong interest in machine learning, LLMs, and real-world AI applications. Proactive problem-solver and self-learner, constantly exploring improvements, tutorials and new tools to enhance my AI skills. Currently focused on self-studying the Transfomer architecture behind Large Language Models. Actively researching techniques like Retrieval-Augmented Generation (RAG) to enable models to reason over domain-specific, dynamic data. I'm actively seeking an internship to contribute hands-on to a real-world AI team.

SKILLS

- **Programming:** Python (Scikit-learn, TensorFlow, PyTorch), C#, Java, C++, C, SQL, JavaScript (React, Node.js, Express.js), Bash, Solidity
- **AI/LLM:** Neural Networks, Transformer architecture, RAGs, Embeddings Fine-Tuning, Prompt Engineering for LLM, HuggingFace Transformers

EXPERIENCE

Machine Learning - Summer Practice *newPharma Development - summer 2025*

- Independently developed an end-to-end ML pipeline for customer segmentation in pharmaceutical retail, experimenting extensively with NLP and unsupervised learning to derive insights from product and sales data.
- Built a robust preprocessing pipeline with Pandas, testing multiple techniques to clean unstructured datasets, ensuring high-quality inputs.
- Explored diverse NLP models, applying Sentence Transformers and experimenting with BioClinicalBERT and Masked Language Modeling to generate optimized semantic embeddings for pharmaceutical product descriptions.
- Designed a two-stage clustering system, testing K-Means, and PCA configurations, iteratively optimizing product and customer segments using Silhouette Score for actionable outcomes.

PERSONAL PROJECTS

E-Commerce Purchase Prediction AI *DataCamp AI Engineer Certification Project*

- Built and deployed a neural network from scratch using PyTorch that predicts customer purchase probability with business-optimized preprocessing
- Gained hands-on experience applying advanced AI techniques in a real-world setting, demonstrating ability to build end-to-end ML workflows aligned with business objectives

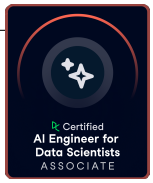
Continuous Learning Projects *AI-LLM-RAG*

- Continuously expanding knowledge through tutorials and self-study on advanced DL concepts.
- Studied the mathematical foundations of neural networks (linear algebra, calculus, optimization) and understood how partial derivatives and backpropagation update weights and biases to minimize the loss function.
- Built mini PyTorch experiments to connect theory with practice

CERTIFICATIONS

AI Engineer for Data Science *Issued by DataCamp, 2025*

Certified ability to design neural networks with PyTorch, implement MLOps pipelines, and deploy LLM solutions (Llama 3, Hugging Face) for real-world applications



EDUCATION

West University of Timisoara, Romania *Expected Graduation: May 2026*

Bachelor's Degree in Computer Science – 3rd Year Student