

Octavio-Daniel Vizaru

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EDUCATION

Technical University of Cluj-Napoca - Faculty of Automation and Computer Science
Bachelor of Automation and Applied Informatics

Expected Graduation:
June 2026

WORK EXPERIENCE

ROMBAT SA

R&D Department Intern - July 2025 - September 2025

- Developed **Machine Learning** and **Deep Learning** models to predict the **Remaining Useful Life (RUL)** of lead-acid batteries.
- Preprocessed raw laboratory data, extracted and calculated necessary features, and applied both classical ML methods and neural networks.
- Gained experience with technologies such as **Pandas, Numpy, Scikit-learn, TensorFlow, PyTorch**.
- Expanded expertise in **Natural Language Processing (NLP)** by building a **sentiment analysis pipeline**.
- Developed **Convolutional Neural Networks (CNNs)** for **image classification** tasks.
- Built prototype **RAG-powered chatbots** by integrating **OpenAI APIs** with **Pinecone** and automated workflows in **n8n**.

Busch Gardens Tampa Bay - Florida

Exchange Student - July 2024 - September 2024

Developed communication, adaptability, and cross-cultural collaboration skills in an international environment.

PROJECTS

- AI RAG Customer Service Chatbot:** Python, LangChain, NVIDIA AI Endpoints
- Animal Image Classifier:** Python - Keras - TensorFlow
- ProMatch (Hackathon Project):** HR AI CV Selection Tool - SpringBoot, SpringAI, ReactJS, PostgreSQL
- Lunar Landing Spaceship:** Applied Q-Learning to simulate autonomous spaceship landing strategies.
- Reviews Classifier:** Sentiment Analysis - Python - Scikit-learn
- Budgetly.** : Budget and Spending Tracker WebApp; NodeJS, ReactJS, MongoDB

TECHNICAL SKILLS

- Programming:** Python, Java, JavaScript, SQL
- AI/ML & GenAI Tools:**
 - TensorFlow, PyTorch (Deep Learning); Scikit-learn, Pandas, Numpy (ML and data prep); Matplotlib, Seaborn.
 - HuggingFace Transformers (LLMs embeddings); LangChain, LlamaIndex (**RAG** orchestration); Pinecone (vector database).
 - OpenAI API, Gemini API (LLMs & embeddings); n8n (workflow automation).
- Frameworks:** Spring Boot, Django, ReactJS, NodeJS
- Databases:** PostgreSQL, MongoDB
- Developer Tools:** Docker, Git, Postman

LICENSES AND CERTIFICATIONS

- Building RAG Agents with LLMs - NVIDIA
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
- Introduction to Generative AI - AWS
- Machine Learning with Python - freeCodeCamp
- Intermediate Machine Learning - Kaggle
- Machine Learning - IBM
- Deep Learning Essentials - IBM
- Machine Learning - Bittnet Training

LANGUAGES

- English: Advanced
- Spanish: Native
- Romanian: Native

AWARDS

- 3rd Place:** HacKMK 24h Hackathon 2024