

Denis-Angel Moldovan

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EDUCATION AND TRAINING

Babes-Bolyai University <i>Master of Science in Artificial Intelligence</i>	Cluj-Napoca, Romania Oct. 2024 – Present
Babes-Bolyai University <i>Bachelor of Computer Science</i>	Cluj-Napoca, Romania Oct. 2021 – Jul. 2024
Supervised Machine Learning: Regression and Classification <i>Certification website</i>	Coursera, Stanford Online Oct. 2023 – Oct. 2023
Moise Nicoara National College <i>Computer Science and Mathematics</i>	Arad, Romania Sep. 2017 – Jun. 2021

EXPERIENCE

AI Engineer Associate <i>Avalere Health</i>	May 2024 – Present London, UK
<ul style="list-style-type: none">Implemented a copilot that would allow medical employees to use AI to extract reports from HTA (Health Technology Assessment) documents about various medication using the power of NLPs achieving human-in-the-loop behaviour with citationsImplemented a micro service to chunk data into paragraphs/images/tables from PDFs offering metadata such as bounding boxes and page numberIntegrated AI agents using Material UI, Blazor	
Software Developer <i>BitStone</i>	Jul. 2023 – Present Cluj-Napoca, Romania
<ul style="list-style-type: none">Worked as a backend developer for .Net solutions on E-Learning platforms such as University of PennsylvaniaWorked as an AI developer for a swiss product information management system which involved a RAG chat bot that would assist users with product recommendations, translations and decision making in the platform	

PROJECTS

Journify - Music Emotion Recognition <i>Torch, Flask, React, MongoDB, Spotify API</i>	Oct. 2023 – May 2024
<ul style="list-style-type: none">Journify is a web app that allows users to interact with a journal of 12 phrases related to daily activities. Users can associate each phrase with a song and identify the song's predominant emotion using AI. Based on these classifications, Journify provides statistical insights into the user's emotional patterns and journal history.Implemented a CNN+LSTM model for music to emotion classificationImplemented Spotify OAuth to let the user authenticate with its Spotify account	
Background segmentation & blurring <i>Torch, Gradio, Wandb</i>	Oct. 2023 – Feb. 2024
<ul style="list-style-type: none">Developed a Deep Learning model based on a well known architecture, UNET. The model consists of a decoder and encoder that provides a segmentation of the background, hair, body for a given image of a person. The output is then used to blur the background of the picture.Utilised Wandb for hyper-parameter and metric tracking during training such as values of the loss function and saving checkpoint artifactsUsed Gradio to deploy the model on a web application	

TECHNICAL SKILLS

Languages: Python, C#, TypeScript, Java, C/C++, SQL Server, NoSQL (mongo), HTML/CSS
Frameworks: React, Blazor, Node.js, Nest.js, Flask, Bootstrap, Material-UI, Asp.Net, Wandb, Selenium
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Vim
Management Tools: Jira
Libraries: Torch, NumPy, Matplotlib, pandas, scikit-learn, Open-CV, Pillow, Redux, MongoEngine