




Madalina Carcea

CONTACT

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 <https://personal-portfolio-mada.lovable.app>

ABOUT ME

Aspiring Data Scientist & AI Engineer student with practical experience in AI automation, data analytics, and technical documentation. Passionate about building impactful tools using computer vision, machine learning, and Python-based systems. Fast learner, clear communicator, and highly detail-oriented—explore my portfolio website for detailed project case studies and examples of my capabilities.

WORK EXPERIENCE

AIGENTIC Compliance - Corporate Game Chick Eindhoven, Netherlands

Digital game developer

02/06/2025 – Current

Unity 2D Compliance Game (Lead Developer)

- *A bite-sized 2D Unity game that turns existing compliance questions into interactive puzzles (e.g. "Data Privacy Dungeon"), making training more engaging and memorable.*
- **Tech highlights:**
 - Built in Unity 2D with C# (SpriteRenderer, Tilemap, Animator)
 - Editor scripts to import CSV/JSON question banks into ScriptableObjects
 - Unity Analytics for tracking accuracy, completion time, and replay rates
- **My work:**
 - Architected a modular project and content pipeline for seamless policy updates
 - Implemented core mechanics (movement, UI overlays, rewards) and automated testing
 - Collaborated with artists and instructional designers to polish visuals and scenarios

DeRegt Cables Rotterdam, Netherlands

Business or Sector Manufacturing | **Department** Cable design | **Website** <https://www.deregtcables.com/>

Artificial Intelligence Engineer

08/10/2024 – 30/11/2024

Documented and analysed AI-driven automation projects to improve cable design, measurement, and modelling processes. Key contributions included:

- **AI for Cable Optimisation** – Reported on a system using large datasets (Excel, Lotus, PDFs) to optimise layered cable designs for cost and efficiency.
- **Automated Spiral Measurement** – Documented a computer vision and deep learning approach for measuring spiralled metal components.
- **Blender-Based Design Automation** – Created documentation for a Python-Blender tool enabling parametric 3D cable modelling via Excel input.

Gained hands-on experience with fibre and electric cable systems while refining my technical writing skills and translating complex AI solutions into clear reports for diverse stakeholders.

● **DKG Groep** Bergen Op Zoom, Netherlands

Business or Sector Manufacturing | **Department** Planning Department | **Website** <https://www.dkgkeukens.nl>

Link <https://github.com/MadalinaCarcea221989/Personal-Projects/tree/main/DKG>

Internship

29/01/2024 – 09/02/2024

As a Breda University's Data Science and Artificial Intelligence Academy student, I was fortunate enough to secure a two-week internship with one of the university's new partners, DKG. As part of the internship, my team of four data scientists and I were tasked with maximising profits, minimising losses, and calculating the accuracy of production planning. We worked together to turn our ideas into reality and successfully achieve our goals.

EDUCATION AND TRAINING

● **31/08/2023 – CURRENT** Breda, Netherlands

● **Data Science and Artificial Intelligence- Bachelor of Sciences** Breda University of Applied Sciences

Website <https://www.buas.nl/en>

05/09/2022 – 14/07/2023 Breda, Netherlands

● **Creative Media and Game Technology- Bachelor of Sciences** Breda University of Applied Sciences

Address Monseigneur Hopmansstraat 2, 4817 JS, Breda, Netherlands | **Website** <https://www.buas.nl/en>

20/09/2020 – 23/04/2021 Iasi, Romania

● **Certificate in Software Testing, Manual and Automated** Wantsome - The Friendly IT Academy

During those seven months of course I managed to gain knowledge in manual testing and automation testing, specifically, Java through IntelliJ, GitHub, Jira and others programs such Selenium. Also I learned about testing models, types of testing, Databases and Unix commands, however we studied Specification analysis and environmental preparation.

Address St.Colonel Langa, no. 17, 700065, Iasi, Romania | **Website** <https://wantsome.ro> | **Field of study** Software and applications development and analysis

10/09/2018 – 27/05/2022 Iasi, Romania

● **High school diploma "Alexandru Ioan Cuza"** High school Iasi

Address St.Ion Creangă, no.37, 700317, Iasi, Romania | **Website** <https://www.alicuzaiasi.ro>

16/05/2025 – 06/06/2025 St. Pölten, Austria

● **Erasmus+ Project** Fachhochschule St. Pölten

Collaborated with a diverse, international cohort on interdisciplinary AI-driven digital innovation projects, combining virtual coursework with a week-long on-site workshop
Designed and implemented solutions alongside peers from multiple countries, sharpening cross-cultural communication, agile teamwork, and complex problem-solving abilities

Website <https://www.fhstp.ac.at/en> | **Type of credits** ECTS | **Number of credits** 5

LANGUAGE SKILLS

MOTHER TONGUE(S): Romanian

Other language(s):

English

Listening C1

Spoken production C1

Reading C1

Spoken interaction C1

Writing C1

German

Listening A2

Spoken production A2

Reading A2

Spoken interaction A1

Writing A2

French

Listening A1

Spoken production A1

Reading A1

Spoken interaction A1

Writing A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | Power Query ,Power BI | Python (computer programming) | Machine Learning | Computer Vision | Natural Language Processing | Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) | Feature Engineering | Critical Thinking | Robotics Tools: ROS, OpenCV, PyGlet, PyBullet, PyChrono, OpenAI Gym, Docker | R

PROGRAMMING

Python | C++ | C | MySQL | Java | Software Engineering | Good command of Arduino | Object-Oriented Programming | PHP | C/C++(Arduino, Raspberry, Makerboard)

GENERAL KNOWLEDGE

Microsoft Office | Windows | Unreal Engine | Technical & Non-Technical Writing | Excellent knowledge in the use of Windows, MacOS, Android, iOS, Linux platforms

EDITING SOFTWARES

Adobe Premiere | Adobe Photoshop | Adobe Lightroom | Adobe Illustrator | Adobe InDesign

SOFTWARE TESTING

Software tester | Agile (Scrum) | API Integrations | Unit Testing | Integration Testing | Jira | Selenium Testing | Selenium Web Driver | Slack | Design Patterns | Postman