



## CONTACT

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## EDUCATION

2015 – 2017

TECHNICAL UNIVERSITY OF  
CLUJ NAPOCA

- Master's in Building pathology and rehabilitation

2011 – 2015

TECHNICAL UNIVERSITY OF  
CLUJ NAPOCA

- Bachelor's in Civil Engineering

## WORK EXPERIENCE

2016 – PRESENT

CIVIL ENGINEER (PROJECT  
MANAGER | TEAM LEADER)

9+ years in civil engineering, with 8 years as a project manager and 4 as a team leader. Strengthened analytical, time management, and problem-solving skills now applied to AI and data-driven solutions.

## LANGUAGES

- Hungarian – Native
- Romanian – Fluent (C1/C2)
- English – Fluent (C1/C2)
- German – Basic (A2)

# RÉKA GÁBOSI

JUNIOR AI / ML ENGINEER  
CIVIL ENGINEER TRANSITIONING INTO AI

## PROFILE

Aspiring AI/ML Engineer transitioning from a 9-year civil engineering career, with **strong analytical thinking, problem-solving, and project leadership**. Gaining hands-on experience in machine learning, deep learning, and generative AI using **Python, TensorFlow, PyTorch, Keras, scikit-learn, Pandas, NumPy, Hugging Face, Docker, and Kubernetes**. Skilled in building models for prediction, computer vision, and NLP, supported by a growing portfolio of practical projects. Combining engineering discipline with a passion for real-world AI solutions.

## CERTIFICATION

- IBM AI Engineering Specialization
- IBM Generative AI Engineering Specialization
- packt – Docker and Kubernetes Masterclass
- AI Security: Risks, Defences and Safety – Macquarie University
- AWS Cloud Technical Essentials
- Harvard CS50's Introduction to Artificial Intelligence with Python
- Harvard CS50's Introduction to Programming with Python
- Harvard CS50's Introduction to Computer Science
- Harvard CS50's Introduction to Databases with SQL
- Harvard CS50's Introduction to Cybersecurity
- Google Cybersecurity

## PROJECTS

- **Concrete Strength Prediction (ML vs AI) – 2025**
  - This project predicts how strong a concrete mix will be based on its ingredient composition.
  - Built using Python, Scikit-learn, TensorFlow/Keras, Pandas, NumPy, and includes a Tkinter GUI and SQLite database to store and compare results from ML and AI models.
  - It demonstrates end-to-end development: preprocessing, model training, evaluation, and deployment.
- **SafeBubble (Dynamic Safe-Zone AI for Wearable Depth Sensors) – 2025**
  - This system detects nearby people or objects and warns the user when someone gets too close or approaches too fast.
  - Developed using YOLOv8, OpenCV, Python, NumPy, and depth data processing to estimate distance, motion, and time-to-collision.
  - It visualizes a real-time “safety bubble” around the user using RGB+Depth video, offering clear proximity awareness that could support wearable assistive systems.
- **ASL Hand-Tracking Translator (AI + ML + NLP) – 2025**
  - Developed an experimental pipeline to recognize American Sign Language (ASL) hand signs from video using MediaPipe for hand tracking, custom hand-landmark datasets, and ML models for gesture classification.
  - Implemented optional NLP/LLM post-processing to convert predictions into readable text.

For a deeper look into these projects or to explore more of my work, please visit <https://reka-gabosi-portfolio.onrender.com/programming>

## SKILLS

**Programming and Databases:** Python, C, SQLite

**AI / ML Frameworks:** TensorFlow, PyTorch, Keras, scikit-learn, Hugging Face / Transformers, LangChain, RAG

**Web and Deployment:** Flask, AWS, HTML, CSS, Docker, Kubernetes

**Data and Analysis:** Pandas, NumPy

**Skills:** Problem Solving, Leadership, NLP, Prompt Engineering