

Constantin Gabriel Stoian

About Me

A creative and motivated student with a strong drive to improve and grow. Skilled in teamwork, leadership, and effective communication. Enjoys collaborating on projects and approaches challenges with a problem-solving mindset.

Experience

- 2024 **AI Internship**, *Faculty of Automatic Control and Computer Science, POLITEHNICA University of Bucharest*, Bucharest, Romania
- Collected, sorted, normalized and augmented data.
 - Worked with TensorFlow, PyTorch, Librosa, OpenCV, Scikit-learn and Keras.
 - Developed machine learning and deep learning classification models.
 - Completed training courses in machine learning and deep learning.
- 2023–2024 **Temporary Teacher**, *Gheorghe Airinei Technical College of Post and Telecommunications*, Bucharest, Romania
- Delivered lessons in Information and Communication Technology to high school students.
 - Designed lesson plans and educational materials.
 - Assisted in evaluating students' progress and providing feedback.
 - Gained practical experience in classroom management and pedagogical methods.

Education and Training

- 2025–Present **Master's Degree**, *Faculty of Automatic Control and Computer Science, POLITEHNICA University of Bucharest*, Bucharest, Romania
- Specialization: Automation and Industrial Informatics
- 2021–2025 **Bachelor's Degree**, *Faculty of Automatic Control and Computer Science, POLITEHNICA University of Bucharest*, Bucharest, Romania
- Specialization: Systems Engineering
 - Relevant coursework: Object-Oriented Programming, Data Structures, Artificial Intelligence, Database Management Systems, Operating Systems
- 2021–2024 **Pedagogical Certificate**, *Department for Teacher Career Development and Socio-Human Sciences*, Bucharest, Romania
- Basic principles of teaching and preparation of educational materials and class activities
- 2018–2022 **PepinTeen Project**, *School of Values*, Bucharest, Romania
- Problem solving and deductive, inductive, analytical, systematic and creative thinking
 - Conflict management and teamwork
 - Verbal and written communication
 - Basic concepts in Python, IoT, HTML, CSS, JavaScript, Node.js, and Android Studio
- 2017–2021 **Highschool Diploma**, *National College "Ion Măiorescu"*, Giurgiu, Romania
- Specialization: Mathematics and Computer Science

Skills

Programming Python, C++, C, Deep Learning, Machine Learning, GDScript, Matlab, SQL, Jupyter Notebook

Tools Git, Linux, Blender, Audacity

Relevant Projects

2024–2025 **Facial Emotion Recognition**, *Thesis*

- A facial emotion classification model implemented using Haar Cascade for face detection and CNN and ViT for classification. The final model achieved a F1 score of over 90%.
- The dataset was manually collected, sorted, and augmented using image transformations such as flipping, rotation, light adjustments, and GAN models (StarGAN, DC-GAN, CycleGAN).

2024 **Music Player with Vocal Reduction and Isolation**, *Personal Project*, **Repository**

- A Python desktop app using Tkinter and Pygame to play music, manage playlists, control volume, and process audio by removing or isolating vocals.
- Vocal removal is done by erasing the central channel of the song.
- Vocal isolation is achieved using Fourier transform, masks, and filters from the Librosa library, emphasizing the vocals.

2024 **Speech to Text Application**, *Personal Project*, **Repository**

- A Python Tkinter app that transcribes long audio files using Google API by splitting them on silence, displays the transcription, plays the audio using Pygame, and exports results as a PDF using FPDF.

2023–Present **Soil Classifier using Machine Learning**, *Personal Project*, **Repository**

- A k-Nearest Neighbours and Naive Bayes classifier that distinguishes between wet and dry soil images, with potential applications in the agriculture industry.

Certifications

2025–Present **AWS Cloud Quest: Cloud Practitioner**, *AWS Skill Builder*
Link

2024–Present **Complete Linux Training Course to Get Your Dream IT Job 2025**, *Udemy*
Link

2020–2021 **Oracle Academy Database Administration**, *Oracle*
Link

Languages

Romanian Native Speaker

English Advanced (C1)