

DAVIDE GABRIELLI

M.Sc. Student in Computer Science at La Sapienza University of Rome

✉ davidegabrielli000@gmail.com

☎ +39 3661782244

🌐 [davegabe](#)

🔄 [davegabe](#)

🌐 [davegabe.it](#)

📍 Rome, Italy

PROFILE

I am pursuing a Master of Science in Computer Science at La Sapienza University of Rome. While doing my Bachelor's Degree I developed a strong interest in machine learning and audio signal processing. Now in my Master's Degree I am focusing on these topics and I want to improve my knowledge by working in the audio AI research field. I am open to a full-time internship with an immediate start date and I am willing to relocate.

EDUCATION

Master's Degree in Computer Science **La Sapienza, Rome**
📅 09/2022 - Present (Exp. Graduation: 10/2024) **Current GPA: 29.5/30**

In my master's degree I am focusing on deep learning and related research areas such as computer vision, NLP and audio AI.

Bachelor's Degree in Computer Science **La Sapienza, Rome**
📅 09/2019 - 10/2022 **110/110 with honors**

In my bachelor's degree I studied a wide range of topics, particularly focusing on algorithms and data structures, computer architecture, operating systems, databases, networks and software engineering.

Secondary School Diploma in IT **ITIS E. Fermi, Rome**
📅 09/2014 - 07/2019 **100/100 with honors**

In my high school I studied basics of programming, networking, databases and web development.

PROJECTS

Boosted AI **🌐 LinkedIn Startup**
📅 2023 - Present

Boosted AI is a startup dedicated to integrating generative AI into the educational field, offering students a personalized learning experience. The project has been selected in the Google for Startups Accelerator. I currently serve as the Chief Technology Officer (CTO) and AI Specialist, specializing in the field of Natural Language Processing (NLP).

Music Source Separation with DDSP **🐙 Github Exam Project**
📅 2024

I implemented a novel approach for Music Source Separation using the Audio Spectrogram Transformer for regression on the parameters of Differentiable Digital Signal Processing with additive synthesis.

Instrument Cloning with Pix2Pix **🐙 Github Exam Project**
📅 2023

In order to gain proficiency in utilizing big data frameworks such as Apache Spark and Petastorm, I developed a Google Colab notebook that allows to train a Pix2Pix model able to learn the timbre of instrument and generate new samples using MIDI information.

Voice Conversion using Reduced Spectrum **🐙 Github Bachelor's Thesis**
📅 2022

For my bachelor's thesis I conducted research and developed a novel approach for voice conversion based on state-of-the-art architecture using a spectrum-reduced representation of mel-spectrograms as input. This work was carried out with the collaboration of the VisionLab research team.

LANGUAGES

Italian ● ● ● ● ●

English ● ● ● ● ●

PROGRAMMING LANGUAGES

Python

C++

Java

Javascript

TECH SKILLS

🧠 **Deep Learning:** Pytorch, Tensorflow

📊 **Data Analysis:** Pandas, Numpy, SciPy, Matplotlib

🔥 **Big Data:** Apache Spark, Petastorm

🎙️ **Audio Processing:** Librosa, torchaudio, DDSP

🔄 **Version Control:** Git

🗄️ **Database:** PostgreSQL, MongoDB, MySQL, SQLite

🖥️ **Server:** Linux, Apache, Nginx, Docker, Traefik