GAETANO SAURIO

DATA | AI | ROBOTS
MUSIC | LEARNING

THINK BIG

I like to imagine a near future in which AI can improve the quality of life of people, reduce inequalities, lower our impact on the planet, help spread arts, etc.
I have just started my research PhD in Data Science. I want to address challenging problems while learning from and collaborating with extraordinary AI researchers.

PROFESSIONAL SKILLS

- Artificial Intelligence, Big Data, Deep Learning: CNNs, RNNs, GNNs, etc.
- Frameworks, libs, etc.:
  - PyTorch, Keras, Numpy, Pandas, Scikit-learn, Matplotlib, PySpark, Anaconda, Jupyter notebook, etc.
- Code: Python, C, C++, Java, etc.
- Smartphone-based robotics.
- Android app development.
- TCP/IP and IoT protocols.
- Prototyping hardware: Nvidia Jetson Tx2, Intel Movidius, Arduino, Raspberry pi, ESP8266, etc.
- Others: digitalization, automation, 3D, API, Unix, Linux, Windows, algorithms, pipelines, cloud, data structures, HCI, etc.

SOFT SKILLS

Vision, motivation, passion, creativity, fast-paced, innovation, collaboration, flexibility, independence, self-motivated, diversity-oriented, inclusion-oriented, openness.

CONTACT DETAILS

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WORK EXPERIENCE

Data Science Ph.D. candidate
from November 2022
University of Rome La Sapienza
- Proposed research on Graph Neural Networks applied to Computer Vision tasks.
- Interested in Generative AI in Music.

Secondary state school teacher
December 2016 to October 2022
Italian Ministry of Education
- Taught Computer Science to, especially adult students of evening courses. Introduced students to the most advanced and promising IT technologies such as AI and Robotics with great attention to inclusion, in cases of social, linguistic, and economic hardship.
- Instilled confidence, and a growth mindset; harnessed the power of tech; managed the classroom effectively; practiced self-reflection; adopted active, experimental, project-based, inquiry-based, adaptive, cooperative, and differentiated learning strategies.

Freelance corporate trainer
September 2021 to December 2021
Leonardo S.p.a.
- Trained in Lean Production, Industry 4.0, Soft Skills, etc.
- Helped company employees fulfill their potential and appreciate more the value of innovation and technological advancement.

Big Data developer/consultant
August 2018 to July 2019
Rugghia & Associati for Team System
- Developed and implemented new Advanced Analytics software solutions dedicated to the processing of data produced by industrial machinery, through the use of distributed architectures based on microservices as well as on IIoT and Big Data technologies.
- In a team of two, we were able to build an entire pipeline on time; allowing value from data, time saved, and an increase in sales for the customer.

Maker/inventor
January 2015 to July 2018
poommarobot.com
- Developed and implemented a new platform for remote-controlled social robots with autonomous behaviors, based on Android smartphones.
- Received awards for best innovation, and participated in innovation conferences as a panelist or keynote speaker (Maker Faire, European Commission, etc.); come up with a new idea that improved a smartphone to the brain of a robot.

EDUCATION

Ph.D. in Data Science
from November 2022
University of Rome La Sapienza
- Geometric Deep Learning, GNNs, Computer Vision, Precision Agriculture, XAI, etc.

Mediterranean Machine Learning Summer School
September 2022
M2L
- II edition with frontal lectures and practical tutorials on Vision, Multi-Head Attention, NLP solutions, Generative Models, RL, and GNNs.

Deep Learning Specialization
July 2022
Deeplearning.ai
- Neural Networks and Deep Learning, Structuring Machine Learning Projects, Improving Deep Neural Networks: Hyperparameter tuning, Regularization, and Optimization, Convolutional Neural Networks, Sequence Models.

3 First-level Professional Master's Programs in edu innovation
2017 - 2019
University Giustino Fortunato
- Thesis: "The future of School: Artificial Intelligence and Virtual Reality"
University eCampus
- Thesis: "Artificial Intelligence and Autism"
University Giustino Fortunato
- Thesis: "New frontiers of educational tools: from IWB to STEM Robotics"

Master's Degree in Computer Science
2015
University Federico II
- Thesis: "Platform for an Open-Oriented, Multipurpose, Mobile, Approach to ROBOTics"

PERSONAL INTERESTS

Robotics, IoT, human learning, etc.
Singer-songwriter: youtube.com/@macrophylla
Botany, gardening, precision agriculture.
Volunteering for refugees, for the environment, and for animal shelters.