Cristian Curaba

Udine, 33100 – Italy
+39 3465979339 • cristiancuraba00@gmail.com
Cristian-Curaba • Cristian-Curaba

About me

I am a Data Science student with a strong mathematical background, seeking a dynamic environment to further refine my skill set. My goal is to land a challenging role that allows me to make a significant positive impact. Collaboration and kindness are values I hold dear, facilitating me to be an enthusiastic and enjoyable team player. I thrive in group settings, relishing the diverse perspectives and ideas while taking the best from them.

Education

University of Trieste, Italy.
First level Master's degree in Data Science and Scientific Computing
Expected graduation date: October 2024
Current GPA: 28,7/30. *2022 – present*

School for Advanced Studies of Udine – Second level Master's degree
Expected graduation date: October 2024
Student of the scientific class. *2019 – present*
The School for Advanced Studies of the University of Udine "Di Toppo Wassermann" is a higher learning institution based on merit. After a selective admission (including two written and an oral examination), it provides a five-year scholarship covering taxes, board and lodging. During this period, students have to attend extra courses and exams, and in the end, we gain a second-level Master's degree diploma. Learn more about the School at https://scuolasuperiore.uniud.it.

University of Udine, Italy.
Bachelor's Degree in Mathematics, 110/110. *2019 – 2022*

Work experience

Sms Group
Development and Research (300h) *2023 – 2024*
Applying machine learning methods and data analysis to devise strategies for controlling electric furnaces.

Computer and programming skills

Advanced: C, LaTeX, C++, Python (PyTorch)
Intermediate: R, Shell Unix, PostgreSQL.
Basic: Git, Pyro, OpenMP, MPI, Html, Matlab.

Languages

Italian: Mothertongue.
English: Proficient user (C1). *IELTS*

Last updated March 29, 2024

Courses for the School of Advanced Studies

- Distributed Systems 28h (2023).
  Reference: *Distributed Algorithms: An Intuitive Approach*, Wan Fokkink.
- Computer Vision 28h (2023).
  Keywords: deep neural network, gradient descend, backward and forward propagation, adversarial network.
- Applied Ethics 14h (2023).

- Advanced Mathematical Methods for Engineering 28h (2022).
  Keywords: differential manifolds, Lie groups, synchronization problem on graph.
- Fundamentals for data visualization 28h (2022).
  Keywords: Mackinlay principles, Weber law, Gestalt law, Tufte graphical design, complex data visualizations.
- Memory, past and delay: mathematics and more 14h (2022).
  Keywords: retarded differential equations, dynamical systems, medicine application.
- Quantum Information 28h (2021).
  Reference: *Quantum Computation and Quantum Information*, A. Nielsen, L. Chuang.
- Category Theory 28h (2021).
  Keywords: functors, natural transformations, Yoneda Lemma, commutative diagrams.
- Blockchain and applications 14h (2021).

- Topology and Order 28h (2020).
  Reference: *Topology and order*, L. Nachbin.
- Numbers and Geometry 28h (2020).

Thesis for the School of Advanced Studies

- Well structured transition systems (2023).
  Keywords: quasi-orders, transition systems, set-saturation method, tree-saturation method, Petri-nets
- Distributed Interval Synchronization On Directed Graphs (2022).
  Keywords: interval arithmetic, synchronization problem with intervals, implementation and analysis.
- Entanglement Measure (2021).
  Keywords: quantum mechanics axioms, quantum information theory, Bell's Theorem, quantum teleportation.
- Quaternion Numbers (2020).
  Keywords: Hamiltonian product, space geometry, rotations, visualizing 4^{th} dimension.

Interests

- Didattic videos
- Board and card games
- Sports
- Reading

Associations:

- Sisifo.
  Active participation in the student-born association Sisifo: (mainly) organizes cultural activities for citizens.

I hereby authorize the use of my personal data in accordance with the GDPR 679/16

Last updated March 29, 2024