Cristina Cosma

Data Scientist | Data Analyst | Cloud practitioner | Architect

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ABOUT ME

I'm a versatile person with the ability to communicate in five languages. I undergo a professional recycling and development stage, exploring the computer science field as a Data Scientist / Analyst and Cloud practitioner. I have a Master's degree in Architecture and specialized training in Data Science, Big Data and Cloud Computing. With hands-on experience in Python, visualizations, databases, ML, and AWS services, I bring analytical thinking and creativity to problem-solving. My background in sustainable urban development, Smart Cities and project management, combined with skills in producing complex visualizations mapping and financial, has equipped me with a holistic approach to finding solutions. As a lifelong learner with a curiosity for exploring new technologies, I'm passionate about leveraging technology to make a meaningful impact.

RESKILLING: IT EDUCATION

AWS re/Start Cloud practitioner Bootcamp (420 h)
Factoria F5 and Barcelona IT Academy, Barcelona 04/2024 - 07/2024 (ongoing)
A hands-on program focused on mastering Cloud architecture, foundational concepts, and AWS Core services, while also nurturing soft skills like collaboration, problem-solving, multicultural communication, Agile methodology, and presentations.
Utilized: EC2, AWC Lambda, SSH servers, VPC virtual Cloud networks, S3 buckets, Redshift, SQL and NoSQL databases (RDS, DynamoDB), Linux Bash and Python scripts. Learned about Cloud security, scalability, and best practices.

Big Data Upskilling Course (150 h)
Barcelona IT Academy, Barcelona 04/2023 - 06/2024 (ongoing)
Mastering key Big Data programs for social network analysis and Machine Learning, distributed storage, processing, and extracting value from both structured and unstructured data. Utilized: Python, Apache Spark / PySpark, and Hadoop.

Data Science fundaments with Python & Data Science Reskilling Bootcamp (100 h + 350 h)
Barcelona IT Academy, Barcelona 05/2023 - 03/2024
In this flipped classroom course combination I gained expertise in data loading, extraction, transformation, analysis, and visualization (ETL & EDA), as well as Machine Learning and Natural Language Processing (NLP). I fine-tuned supervised and unsupervised Machine Learning (ML) models, including regression, classification, k-means, and decision trees, and employed web scraping, data mining and NLP methods for sentiment and emotion analysis. Utilized: Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, SciPy, NLTK, Spacy, BeautifulSoup, Transformers, web scraping), MySQL, LiteSQL, AI prompts.

ARCHITECTURE AND PROJECT MANAGEMENT EDUCATION

Master Degree in Project Management
La Salle · Universitat Ramon Llull, Barcelona 2009 - 2010
The program encompassed rigorous training in project planning, execution, and follow-up, preparing graduates to lead and deliver successful projects across various industries. Through a blend of theoretical knowledge and practical applications, students gained proficiency in project management methodologies, risk assessment, stakeholder communication, and team leadership, setting the foundation for successful project delivery in dynamic and challenging environments. Utilized: Microsoft Project, Excel, PowerPoint

Canadian architecture program (Bachelor's and Master's Degree – B.Sc. Arch + M. Arch)
Université Laval, Québec, Canada 2002 - 2008
Includes comprehensive architecture areas of the Canadian program, such as specific building science, urban design, building efficiency norms and construction techniques, and the ones specific to Quebec's unique climate and historical context.
Utilized: AutoCAD 2D, FormZ 3D, Blender, Adobe Photoshop, Adobe Illustrator, Canadian Building Code, wooden scaled models.

WORK EXPERIENCE

Financial analyst
Freelance independent trader 2013 – Present

Exercising independent judgement and using analytical skills to analyze in detail USA stocks, futures and ETF and main indexes in USA (NASDAQ, SP500), EU (DAX, CAC40) and currencies, to help decisions. Plotting and fine-tuning performance indicators and parameters upon hourly, daily, monthly and yearly graphs (simple moving averages, stochastics and logarithmic SMAs, bar charts).

Utilized: ProRealTime, Investing.com, Excel

Urban Development Architect & Analyst
Agència d'Ecologia Urbana de Barcelona (now: Barcelona Ecologia) 2009 - 2014

Started as a junior Architect, progressed to co-managing a 12-member team of young architects, geographs and environmental consultants, providing design insights for urban restructuring projects and Smart Cities. Performed data analysis, visualization, mapping, design of transportation flows in public space renovation initiatives for Barcelona, including *Supermanzanas* and *Nueva red de autobuses urbanos*. Contributed to urban projects in Figueres, Bilbao, and Vitoria-Gasteiz.

Utilized: AutoCAD, Geomedia GIS, Access database, Microsoft Office, Adobe Photoshop, Ilustrator and InDesign.

Architect Intern (International internship)
EMBT Miralles i Tagliabue Arquitectes Associats, Barcelona 05/2006 - 08/2006

During my international internship, I had the opportunity to work and live in Europe, transitioning from North America. I contributed to projects like the *Pavillon du Luxembourg* at *Parc du Centenaire* and the *Torre del Gas Natural* in Barcelona. I also worked on object design, such as lamps and chairs for our project in Luxembourg. This experience also helped me develop soft skills like collaboration, patience, empathy and teamwork in a diverse, international environment with colleagues from 13 countries.

Utilized: AutoCAD, Access database, Adobe Photoshop, InDesign, hand-made wooden scaled models.

LANGUAGES AND COMMUNICATION

Spanish	French	English	Romanian	Catalan
Native: C2	Native: C2	Proficient: C1	Proficient: C1	Advanced: B2

STRENGHTS

Authentic, I take ownership of both my successes and my mistakes and try to see things as they are.
Knowledge seeker, I have a curious mind with innate passion for expanding knowledge and making sense of things
Attentive to details, I am very observant, have great analytical skills and a passion for delivering well-executed work.
Resourceful and creative, I can use intuition or think out of the box when looking at things and solving problems.
Adaptable and culturally versatile, I embrace change and excel in collaborative environments with diverse teams.

TECH SKILLS

Python programming	SQL queries	Statistics for Data Science	Machine Learning algorithms	Data analysis and interpretation

Big Data methods	Amazon Web Services (AWS)	Git Bash	Natural Language Processing (NLP)

Power BI	Efficient AI prompts	Data visualizations	Photoshop image transfomation