Gianfranco Colombi

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DATA SCIENTIST • DATA ENGINEER

Innovative, detail-oriented professional transforming data insights into customized solutions and engaging presentations to support organizations in fast-paced, dynamic environments. Collaborative individual who leads the project management lifecycle through the use of machine learning, applied data science, and graph databases. Highly credentialed self-starter energized by using data to recommend scalable, viable solutions and help companies thrive.

AREAS OF EXPERTISE

Data Science • Machine Learning • Project Management • Design Thinking • Graph Databases • Data Visualization
Cloud-based Apps • Infrastructure Builds • Analytics • Solution Development • Presentation • Communication

PROFESSIONAL EXPERIENCE

CAPGEMINI (Miami, FL)
Data Scientist | Data Engineer   2020–Present
Leverage deep knowledge of machine learning, statistics, graphs, and data analytics to improve business performance. Work with a strong attention to detail and remain flexible to design innovative solutions that meet evolving client needs.

- Developed a custom machine learning engine that helped clients outperform control stores by 50%
- Reduced one process from 60 minutes to 20 by turning a monolithic script into modular autonomous scripts
- Improved data management by over 10% after taking over the data quality efforts
- Implemented new standards for code development, helped the team more effectively demo the new products
- Designed machine learning algorithms using Python, PySpark and Databricks to vectorize historical data as input features and KPIs as labels, and then led trainings to better predict performance of future products
- Developed an ETL (extract, transform, load) pipeline using Python on Linux that used machine learning algorithms and APIs on a graph database to identify relationship between users that appeared in images or videos together
- Managed cloud architecture on AWS by storing tabular data and leveraging distributed computing on Databricks

QUIIPU.COM (Lima, Peru)
EdTech Consultant | Project Manager   2018–2020
Spearheaded a project centered on teaching students critical skills, such as digital marketing, web development, and blockchain technology. Built partnerships with universities, secured sponsorship and implemented new coursework.

- Communicated effectively with higher education leaders and presented research to several universities
- Designed and launched a 6-week course that trains students to use blockchain to develop new applications
- Initiated the project originally to teach 10 high school students, but expanded to educate over 40 college students

CORTEX (Miami, FL)
Data Analyst | Co-founder   2017–2018
Helped companies minimize time spent cleaning and curating data by utilizing graph databases. (bit.ly/cortex3)

- Transfer all data from the European Chemical Database ChEMBL from an RDBMS (Row Data Base Management System) to a Neo4j Graph Database
- Wrote open-sourced Python script available on Github, which helped to recreate the ChEMBL Graph Database
- Built a cloud infrastructure using AWS to automate the process of transferring the data automatically

GODDARD ROBOTICS (Miami, FL)
Engineer | Co-founder   2016–2018
Developed an autonomous robot that went on to win international competitions and built to completion. (bit.ly/grobotics)

- Raised seed funding to build the first prototype through tactical marketing, PR, and relationship building
- Developed logic using Arduino code and implemented electronic components into a level 2 autonomous robot

EDUCATION & CREDENTIALS

CARNEGIE MELLON UNIVERSITY | Bachelor of Science, Mechanical Engineering   2015

DEEPLEARNING.AI **| Convolutional Neural Networks**	2020
DEEPLEARNING.AI **| Structuring Machine Learning Projects**	2020
DEEPLEARNING.AI **| Sequence Models**	2020
DEEPLEARNING.AI **| Hyperparameter Tuning, Regularization, and Optimization**	2020
DEEPLEARNING.AI **| Neural Networks and Deep Learning**	2020
SAS **| Machine Learning Using SAS Viya**	2020
SAS **| Forecasting and Optimization**	2020
SAS **| Natural Language and Computer Vision**	2020
STANFORD UNIVERSITY **| Machine Learning Course**	2016
IDEO.ORG **| Human Centered Design Course (Design Thinking)**	2016
NEO4J **| Certified Professional Neo4j 4.0**	2020

PUBLICATIONS

Colombi, G., (2014). Method for Performing Directivity Surveys and Analyzing Data. *Princeton Research*

VOLUNTEER WORK

BLOCKCHAIN EDUCATION NETWORK **| Chapter Founder, Miami**	2017–2018
CLUBES DE CIENCIAS **| Educational Volunteer, Colombia**	2016 & 2018

LANGUAGES

Spanish (fluent) • **English** (fluent) • **Italian** (intermediate)

TECHNICAL SKILLS

Python • Linux • Neo4j Graph Databases • GraphQL • Cypher • Vagrant • Docker • Jira • Confluence •
Bitbucket GIT • REST APIs • AWS • SQL • PySpark • C++ • XCode • Raspberry Pi • Arduino • Azure