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Emilia Gibellini

EDUCATION

2019
Bachelor in Statistics
Universidad Nacional de Rosario

Thesis: Machine learning Applied to Signal Processing

TOOLS

SQL

Python
pandas, scikit-learn, statsmodels, dask, tensorflow, tfx, pytorch, mlflow

R
tidyverse, data.table, purrr, furrr, lme4, modelr, caret, MASS, fpp3, timetk, shiny

AWS
Athena, Redshift, Sagemaker, Lambda

Google Cloud
BigQuery, VertexAI, CloudRun, Container Registry

Github

Docker

PUBLICATIONS

2019 - SCTE ISBE
Can Future Networks Survive Without Artificial Intelligence?

2018 - ITU Kaleidoscope
Unsupervised Learning for the Detection of Leakage from the HFC Network

2018 - SCTE ISBE
Real-Time Analytics for IP Video Multicast

2017 - SCTE ISBE
Network Capacity and Machine Learning

Experience

2022 - 2023
Data Science Independent Contractor

- Machine Learning consulting
- Model development
- PoC of AI-based solutions
- Cloud architectures for AI

2022
Vopero
Data Scientist

I took the challenge of starting the team as their first Data Scientist! Projects on:
- Computer vision for salient object detection (SOD).
- Clients characterization.
- Survival models to predict time to an event.

2021
Telecom Argentina
Data Science Expert

- Managed a small team of Data Scientists.
- Led the development of a tool that uses forecasting and simulation techniques to assess investment on a telecommunications network. This involved the data collection process, routines for data cleaning, model update and an interactive dashboard for users to execute scenarios.

2020 - 2021
Telecom Argentina
Data Science Specialist

- Conducted analysis on longitudinal data (time and space-varying).
- Developed an R library for internal use.
- Built a forecasting model for thousands of time series, with an error 31% lower than the preexisting method.
- Analyzed concurrency in services and modeled the effect of a new technology on resource utilization.

2019 - 2020
Telecom Argentina
Data Scientist

- Built an artificial neural network that classifies signals with 98% precision.
- Conducted unsupervised learning on signal patterns to find impairments on a telecommunications network.
- Designed Shiny apps to show results.

2016 - 2018
Cablevision
Scientific Support Analyst

Advanced analytics for telecommunications. The main projects I worked on involved:
- Customer characterization
- Classification of network resources based on capacity and utilization.

AKNOWLEDGEMENTS

2018
Young author
Recognition at ITU Kaleidoscope: Machine Learning for a 5G Future.

LANGUAGE

Spanish - mother tongue

English - advanced/professional use

French - intermediate

Portuguese - basic

Teaching

2021 - 2023
Data Science Mentor @Codementor
Visit my profile.

2020
Introduction to artificial neural networks with Tensorflow + R @Rosario R-users
Workshop organized by the R users community to learn about ANNs and tensorflow [Github repo link]

2019
Data Science Mentor @Acamica
Six-month mentorship for a class of 20 people who were starting to learn about Data Science. Used Python to showcase a variety of supervised/unsupervised ML methods.

Courses & certifications

DEVELOPMENT PRACTICES
CLOUD COMPUTING (AWS)
MACHINE LEARNING DATA LIFECYCLE IN PRODUCTION
INTRODUCTION TO MACHINE LEARNING IN PRODUCTION
CRYPTO & DEFI 101
OPERATIONS MANAGEMENT
MANAGEMENT DECISIONS
MARKETING MANAGEMENT
MANAGEMENT ACCOUNTING
FINANCIAL ANALYSIS
BUSINESS ECONOMICS
NEGOTIATION AND COMMUNICATION TECHNIQUES
TENSORFLOW DEVELOPER SPECIALIZATION
TFX: PRODUCTION ML PIPELINES WITH TENSORFLOW
TRAINING AND DEPLOYING PYTHON MODELS ON AZURE
NATURAL LANGUAGE PROCESSING WITH NEURAL NETWORKS
PROBABILISTIC CLASSIFIERS IN MACHINE LEARNING
INTERNATIONAL WINTER SCHOOL ON BIG DATA
COMPUTATIONAL ANALYSIS OF TEXTS AND NETWORKS IN SOCIAL SCIENCES
QUANTITATIVE METHODS IN DEMOGRAPHY
STATISTICAL METHODS APPLIED TO INDUSTRY
MACHINE LEARNING