Resume

Personal Information

First name / Surname: Daniela-Laura Manolache
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Profiles: GitHub LinkedIn Blog

Experience

Data Scientist Consultant — Apr 2018 – Present
Projects:
Churn Prediction and Survival Analysis using Commercial Game Log Data: API suitable for deployment; input-output unit test
Game Recommender: Content-Based Recommender focus on properties of games;
DataCup 18 Desjardins: Predictive model for consumer spending habits
Project description: Predict as to whether a client is likely to be delinquent on their payments in the coming year; Applied Logistic Regression, Random Forests, Gradient Boosting, Automated Model Tuning (Bayesian Optimization- Hyperopt); AUROC Curve with 86.4% score.

Research Data Analyst - Concordia University — Jan 2016-Apr 2018
— Perform predictive analysis/models on collected data from numerical models in civil engineering; Research papers on ML with application in civil engineering: 1, 2

Teaching Assistant - Concordia University — Jan 2016-Apr 2018
— Graduate and Undergraduate Courses and Labs in Civil Engineering

Engineer & ML Advocate- SmartCityX — Sep 2016-Jun 2017
— Advocate, content creator and instructor for workshops on Probabilistic Graphical Modeling (PGM) for graduate students from various disciplines/domains.

Education

Stockholm University – MSc in Decision analysis and Data science — 2020–2022
Data science track – distance learning

Open-Source "Masters", Machine Learning and Statistics — 2017-2018
A twelve-month, self-curated deep-dive into select topics in machine learning and statistics.

TUCEB, Romania / University of Pisa - MSc in Civil Engineering — 2013-2015
Research on the probabilistic approach to civil and structural engineering

Technical University of Civil Engineering Bucharest – BSc in Civil Eng. — 2009-2013

Mathematical Tools and Statistical Analysis

Regression, Decision Trees, Gradient Boosting Machines, Neural Networks, Probabilistic Graphical Models, Clustering, PCA, Recommender Systems, Churn/Survival Analysis, A/B Testing

Programming Languages and Big Data Tools

Programming Languages: C++, Python & scientific stack (Pandas, NumPy, SciPy, scikit-learn, Plotly tools, Featuretools, Dask)
Operating System: MS Windows, Linux (Ubuntu, CentOS)
Database architectures: 1-tier, 3-tier architecture
SQL Dialects: PostgreSQL, PL/pgSQL, SparkSQL, MongoDB, Hive
IDE/Tools: JVM, VS, PyCharm, Jupiter Notebook, Databriks Notebook, Docker, Kubernetes, Git
Data visualization: Tableau
ETL/Cloud Services: AWS, GCP
Hadoop Ecosystem: HDFS, MapReduce, Hive, Spark, Kafka, Airflow

Personal

Languages: French (pre-Intermediate), Italian (fluent)