Resume

Personal Information

First name / Surname: Daniela-Laura Manolache
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Telephone: +1 514 449 4256
Profiles: <u>GitHub LinkedIn Blog</u>

Experience

Data Analyst/ Research Assistant - Concordia University

Jan 2016-Apr 2018

— Perform predictive analysis on collected data from numerical models in civil engineering Research papers of 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

Team member/ Engineer - SmartCityX

Sep 2016-Jun 2017

 Advocate, content creator and instructor for workshops on Probabilistic Graphical Modeling (PGM) for graduate students from various disciplines/domains.

Projects

Churn Prediction and Survival Analysis using Commercial Game Log Data: API suitable

for deployment; input-output unit test

<u>Game Recommender</u>: 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 a 86.4% score.

Education

Open-Source "Masters", Machine Learning and Statistics

2018-2019

A twelve-month, self-curated deep-dive into select topics in machine learning and statistics. Educational resources derived from massive open online courses (MOOCs), textbooks, predictive modeling competitions (Kaggle) and academic research (arXiv)

Concordia University, Montreal -Canada - PhD Student

2016–2018

TUCEB, Romania / University of Pisa - MSc in Civil Engineering

2013-2015

Research on the probabilistic approach to civil and structural engineering research: project aimed to apply modern reliability methods for the assessment of prestressed concrete slabs.

Technical University of Civil Engineering Bucharest – BSc in Civil Eng.

2009-2013

Mathematical Tools and Statistical Analysis Linear Regression, Logistic Regression, Decision Tree, Random Forest, Boosting, SVM, kNN, Neural Networks, Naive Bayes, Clustering, PCA, Recommender Systems, NLP, Churn/Survival Analysis, A/B Testing

Data and Analytics Tools/Langua ges: **Languages:** C++ (>3yr), Python & scientific stack (2+yr, Pandas, NumPy, SciPy, scikit-learn, Plotly tools (Express, Cufflinks), Featuretools, Dask, NLTK, Keras), PySpark(2+yr), SQL(3+yr), HTML, CSS

Database: MongoDB, PostgreSQL, Oracle, SparkSQL

IDE/Tools: Visual Studio, PyCharm, Jupiter Notebook, Databriks Notebook, Docker, Git, Flask

Data visualization: Tableau, Exploratory

Cloud computing services, big data pipelines: AWS S3, Hadoop

Personal

Languages: English (6.5 IELTS-Academic), French (Intermediate), Italian (fluent),