DARIO CULIG-TOKIC

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Computer Skills:

Python (Numpy, Pandas, SciPy Matplotlib, Seaborn, OpenCV)

Machine Learning (Keras, SciKit Learn, TensorFlow, PyTorch)

R (plyr, ggplot2, mlr, nnet, gbm)

Oracle SQL Developer

MathWorks Matlab & Simulink
Wolfram Mathematica

MS Excel, MS PowerPoint
MS Project, MS Visio

Skills:

Complex data analysis
Data visualisation
Coding in Python and R
Machine learning
Mathematical modelling
Database administration

Courses:

Artificial Intelligence, Georgia Tech
Reinforcement Learning, Georgia Tech
Unsupervised Learning, Georgia Tech
Supervised Learning, Georgia Tech
Cost monitoring and reporting , Audi AG
Intro to Machine Learning, Udacity
Model Building and Verification, Udacity
Warranty Manager Workshop, Audi AG
Exploratory Data Analysis, Udacity
R Programming, Udacity
The Data Scientist's Toolbox, Udacity

Publications:

Comparative Analysis of the District Heating Systems of Two Towns in Croatia and Denmark, Volume 92, Part 3, 1 December 2015, Pages 435–443, Energy, Elsevier (cited 17 times so far)

Languages:

English - Native or bilingual proficiency
Croatian - Native or bilingual proficiency
German - Limited working proficiency

Summary

Analyst at Porsche Croatia, holding Machine Learning and Mechanical Engineering Degrees with sound understanding of machine learning principles, experience in project management, mathematical modelling and programming, with excellent problem-solving skills and international experience in Canada and Croatia. Developed end to end solution for time series problem of electricity market load prediction using deep neural networks. Created pipelines for regression problems using advanced tree gradient boosting and decomposition algorithms. Developed convolutional neural networks from scratch for classification of different dog breeds. Extracted and combined data from complex relation databases using SQL. Generated reports and visualizations using Python. Communicated data insights to relevant stakeholders and advised on data driven decision making.

Work Experience

Mechanical Engineer / Analyst:

Porsche Croatia, Zagreb, Croatia — May 2015 – Present

- Managed after-sale related projects and continuous operations in domain of extended warranty, mobility warranty, parts control and logistics.
- Developed complex regression models to predict future cost of more than 9000 different damages for used cars and cars under extended warranty
- Developed monthly business performance reports, highlighting emerging trends and performance against key performance indicators.
- Worked closely with the director and department management to identify opportunities and collaborate with stakeholders to find the right solutions.
- Advanced analytical and statistical tools for tracking types of damages, their frequency as well as financial aspects of the national market.
- Performed statistical analysis of warranty claims to detect failure trends for the whole market and individual workshops and took appropriate actions to correct nonconformities and problems.
- Applied analytical and problem solving skills in data gathering and analysis to enable better data driven decision making.
- Established automated control of 100,000 user created warranty claims for field campaigns in the amount of 5,000,000 EUR by coding logical criteria within SAGA/2.

Mechanical Designer:

MechWave Engineering, Calgary, Canada — May 2014 – Dec. 2014

- Managed construction administration as prime consultant for data centre projects.
- Prepared proposals, mechanical site instructions, change orders and responses to RFIs and shop drawings as per company standards.
- Designed HVAC, plumbing and fire protection systems for various projects including high rise office buildings and data centres in accordance with relevant standards.

Education

Machine Learning Engineer

Udacity Nanodegree Program — Feb. 2018 – Aug 2018

- Supervised Learning, Unsupervised Learning, Reinforcement Learning
- Conventional ML (Bayesian models, ElasticNet, SVM, KNN, Clustering)
- Deep ML (Artificial NN, CNN, Transfer Learning), Q-learning, DPPG

Master of Mechanical Engineering Cum Laude

University of Zagreb, Croatia — Sept. 2008 – Nov. 2013

- Mathematical Modelling, Systems Design, Energy Management
- Statistics, System Dynamics, System Control, Economics