Rogvi David Arge

Data Science & Optimization Consultant

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SUMMARY

Data Scientist with more than 4 years of experience in agile project development and a passion for deep learning, predictive analytics and optimization. Vast experience in data wrangling, exploratory data analysis, machine learning and data visualization and applying these skills to generate corporate wide improvements.

KEY COMPETENCIES

Python   Machine Learning   Data Science   Deep Learning   Data Visualization   AWS

Problem Solving   Critical Thinking   Communication   Data Analysis   SQL   TensorFlow

Keras   NoSQL   NLP   Optimization   API   Flask   CI   CD   Statistical Modeling   Analytics

Git   Docker   Operations Research   D3   JavaScript   HTML   CSS   C#   Azure   SCRUM

EMPLOYMENT HISTORY

Owner & Data Science Consultant | Arge Innovations   *Dec. 2018 - Present*
Development of data science, machine learning, deep learning, optimization, and analytics solutions for businesses

- Spearheaded a paradigmshift of the transportation & logistics industry in two successful data science projects over a period of 5 months

Freelance Data Science Consultant | DFDS A/S   *Dec. 2018 - May. 2019*
Spearheaded a paradigmshift of the transportation & logistics industry

- Reduced RMSE of prediction algorithm by 20% by helping to implement a number of scalable machine learning models
- Enabled a completely new transportation planning methodology by implementing dynamic optimization tool that visualized optimal plan in real time

Data Scientist | ATP   *Feb. 2017 - Dec. 2018*
Matured and overhauled the fraud detection efforts within social benefits using various data science approaches

- Reduced payments of social benefits to fraudulent people by more than 10 mio. using expert systems
- Enabled investigation of people with complex fraud patterns by implementing a hybrid machine learning-expert system model
- Decreased prediction failures caused by server downtime by building a Flask based ser- ver/database monitoring system

Data Analyst & Programmer | ConWX   *Apr. 2015 - Feb. 2017*
Used analytics and machine learning to increase client revenue and implemented software solutions to distribute these models to customers

- Greatly increased monthly revenue of one of our largest clients by improving our forecasts by 18%

- Enabled forecast evaluations by leading the design, development, and implementation of a forecast monitoring system learning-expert system model
- Decreased prediction failures caused by server downtime by building a Flask based ser- ver/database monitoring system

Student Assistant | Ramboll   *Mar. 2011 - Apr. 2015*

Developed excel macros in VBA for various departments
- Reduced walltime of building energy calculation by porting the existing excel solution to C++
- Enabled simulation of various energy dependent building parameters by creating an integration between excel and BE10

EDUCATION HISTORY

M.Sc. in Physics | University of Copenhagen   *Aug. 2012 - May. 2015*

Focused my studies on applied mathematics, computational physics, machine learning, statistics and mathematical modeling. Wrote my thesis *"Inflammation of the Central Nervous System - Modeling Multiple Sclerosis as a Motile Excitable Medium"* under Professor Mogens Høgh Jensen

B.Sc. in Physics | University of Copenhagen   *Aug. 2009 - Jun. 2012*

Focused my studies on quantum optics, solid stats physics, laser physics, optics, and experimental physics

CERTIFICATES

Applied Social Network Analysis | Coursera   *Feb. 2018*

Python based course on Social Network Analysis, developing essential knowledge in the field of SNA.

Deep Learning Specialization | Coursera   *Sep. 2017 - Feb. 2018*

Development of deep learning models in Tensorflow & Keras. Specialization taught by Andrew Ng on Coursera. Notable projects in Image Recognition, Deep Learning, Transfer Learning, Convolutional Neural Networks, Recurrent Neural Networks, Speech Detection, Speec Recognition, Generative Adversarial Networks, and Trigger Word Detection

Data Analyst Nanodegree | Udacity   *Jul. 2015 - May 2017*

Project based courses teaching essential knowledge and skills for data scientists. Notable projects:
- Copenhagen apartment price evolution. Map visualizing the evolution of apartment prices in greater copenhagen
- Investigating fraud in Enron financial data and email corpus.

LANGUAGES

Faroese, Danish	Native Language
English	Professional Proficiency
Swedish, Norwegian, French, German	Elementary Proficiency