Krénusz Bence

Data Scientist / Machine Learning Engineer

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Skills

Data Science

Over two years of Machine Learning experience I have gained heuristic knowledge regarding the End to End Machine Learning process flow. The technical implementation was achieved mainly by Structural Python Programming, however the knowledge of the R language was required to support the work of my Team Members. At the earlier period my responsibility was to build up mostly Decision Tree based models (DT, Random Forest) for classification and regression. And to build Clustering models using different distance matrixes (Euclidean, Gower, etc...). After I have dived deeply into Deep Learning, I have built up several Neural Network model. In the latest period I have mostly focused on my Deep Convolutional Neural Network model based on Inception Network for Image recognition and Video analytics.

Process Automation

It was my responsibility to find the State-of-the-art Automation solution for the End to End Machine Learning process, hence I gained insight into the current best solution for every individual use-case. We have tried several options (Microsoft ML Studio via Logic App, Azure Automation Development App, Azure DataBricks, Windows Task Scheduler, etc..). In a lot of cases, the simpler ideas fit the best (e.g. To embed the Machine Learning process directly after Data Engineering process inside of SQL Agent).

Data Engineering and Business Intelligence

Working closely with the Data Engineer and Data Analyst colleagues in a small team I have gained visibility on the processes beyond Machine Learning (e.g. ETL and SSIS; Power BI and Tableau). From the Cloud to the On-Premises solutions, We have walked through the possibilities to find the best fit for our use-cases from the Data Engineering point of view. Regarding the Business Intelligence, it was part of my job to gain experience in different BI apps, where I got familiar with the logic of queries and custom visualizations. Due to my Python and R knowledge, the embedded script features in these platforms made this process easier.

Tools

- Python
- R
- Azure Databricks

- Microsoft Power BI
- Tableau
- MSSQL

- PyCharm
- Visual Studio
- AutoCAD

Libraries

- Numpy
- Pandas
- SqlAlcemy

- Matplotlib
- Seaborn
- Plotly

- ScikitLearn
- Tensorflow/PyTorch
- Keras

Experience

Nokia - Data Scientist / Machine Learning Engineer

From 1st of June 2018

Leading the technical solution (of Python programming) to solve Business problems such as Predicting Supply Chain Delivery variables and Sales Opportunity information to optimize Resources and Sales Outcome.
Responsible for the End to End Automation solution for the Machine Learning Environment.
Developing predictive models in order to forecasting Human Resource needs for particular locations.
Support the project which Predicting Demand information as Data Science assistant (Time Series analysis).
Support the project targeting product mapping with Market Basket analysis.
Supporting NLP project targeting customer satisfaction content.
Support the Analytics Community with Deep Machine Learning and Python programming knowledge.
Achieved 1st place on Datathon - International Predictive Analytics Competition.

Udemy, Kaggle - Data Science Preparation

Feb 2018 - Jun 2018

I have completed the Python programming for Data Science course on Udemy, which was in perfect connection with my previous Python knowledge. I did dive deep into the specified libraries of Python (Numpy, Pandas, Seaborn, Matplotlib, Scikit Learn) which was required to became a Data Scientist. In addition I have looked into the R programming language, and started to gain knowledge.
When I have received my certificate I have turned my direction to the Kaggle competition platform, where I have faced myself with Online Competition challenges. House Prices titled world competition for Data Scientists: It was a Regression problem. My job was to predict the sales price for each house in the test dataset. For each Id in the test set, I must had to predict the value of the SalePrice variable. Right after I have started to seek for Data Scientist positions to find my required Business challenges.

IT Services Hungary Kft. - System Admin/Data Analyst

Jun 2016 - Feb 2018

In addition to my daily responsibilities i have started to learn Python programming by myself. I have explored the main logic of the language and the different programming styles. I have completed an exercise series which gave me the required knowledge to take an advanced course.

Evosec Kft. - Camera/Fire alarm installer

Sep 2015 - Sep 2016

Education

Udemy Academy

Data Science Certification

Topics of the Course: Programming with Python NumPy with Python Using pandas Data Frames to solve complex tasks Use pandas to handle Excel Files Web scraping with python Connect Python to SQL Use matplotlib and seaborn for data visualizations Use Plotly for interactive visualizations Machine Learning with SciKit Learn, including: Linear Regression K Nearest Neighbours K Means Clustering Decision Trees Random Forests Natural Language Processing Neural Nets and Deep Learning Support Vector Machines

Óbuda University, Donát Bánki Faculty of Mechanical Engineering

Mechanical Engineering Degree (Bsc)

2013-2017

Eötvös Loránd University

Mathematics and Physics Studies

2011-2013

Hobbies

Currently focusing on a wide areas of sports. After 8 years of Judo I have started to do more independent sports such as climbing, tennis, squash, skiing, swimming and street workout. In addition I really like to hike and bike.

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