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Master Thesis: Using analytics to improve forecast accuracy

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Date: Nov 10, 2017

Location: Stockholm, AB, SE

Company: Ericsson

We want You for Thesis work at Ericsson Supply in Stockholm in the ML/AI area!

Background

Recent advancements in data science have changed the world. Machine learning powers self-driving cars and automated high frequency trading makes a large part of stock transactions. Supply chain management could benefit from such technologies, but currently there is a lack of both people with knowledge of data science and commercial products in the field.

Traditional forecasting is characterized by setting a forecast based on analysis of different inputs such as historical data, input from the sales organization and product management. We would like you to help us evolve the traditional way of forecasting!

Ericsson Supply shall:

Develop and maintain supply chains that meet the requirements on capacity, flexibility, quality, and cost from stakeholders in the business areas and market areas.

Produce, supply and deliver Ericsson and 3PP products and supply services in the most efficient way.

Introduce and maintain products and solutions in Ericsson portfolio in the supply chains.

Within IT&Cloud Supply the products are sold in many configurations and characterized by high value and low volume. Demand is highly volatile which often results in low forecast accuracy and supply plans not of sufficient quality. In order to improve forecast accuracy we want to investigate if Machine Learning/Artificial Intelligence methods can be used as a complement to today's ways of working which is characterized by collecting high level market data, analyzing statistics and setting suitable structure keys.

We would like Your help to:

Find the best forecasting method for the IT&Cloud segment based on machine learning/AI.

This is our suggested approach:

1. Do an empiric study (literature, interviews, internet etc.)

2. Find best-in-class forecasting algorithms

3. Compare and evaluate the algorithms based on the data supplied by IT&Cloud Supply

Requirements

Interest in data science, operations research and forecasting. Capacity to code/ compare algorithms by applying them to the data with tools such as R or python. Entrepreneurial mindset and self-learning.

In case of questions, please contact the Hiring Manager: Mats Lundberg mats.lundberg@ericsson.com

Location: Stockholm

Primary country and city: Sweden (SE) || || Stockholm || IT

Req ID: 216275

Job Segment: Analytics, Data Analyst, Supply, Product Manager, Supply Chain Manager, Management, Data, Operations

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