Dr.-Ing. William Truong

Data Scientist & Lighting Engineer

I support business decision-making by developing data-driven applications.

Contact

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LinkedIn
Web Portfolio

Education

Ph.D., TU Darmstadt
M.Sc., KIT (Karlsruhe)
B.Sc., KIT (Karlsruhe)

Skills

90% R & Shiny
50% Python
50% SQL
40% AWS & Cloud
60% Git & Docker
60% Time Series
60% Machine Learning
60% Modeling
50% Data Governance
90% MS Office

100% German
80% English

Data Science Projects

- Improving forecast of weekly sales trends
  - Application of time series analysis, anomaly detection, feature engineering with seasonalities
  - Comparison and optimization using hyperparameter tuning of different machine learning models (ARIMA, GLMnet, SVM, XGBoost, Prophet)
  - Ensembling (multi-level stacking) of models
- Predicting product prices with XGBoost
  - Modeling the prices of future products based on existing product data using feature engineering
- Development of a web app using AWS to analyze and evaluate DAX share price trends using "moving average"
  - Web-App: DAX Stock Analyser App (R, AWS, MongoDB, Shiny)
  - User: *user1*, password: *pass1*
- Estimation of photometric data of luminaires
  - Web-App: Estimate Luminaire Data Application (R, Shiny)
- Customer segmentation with K-Means & UMAP
- Predicting employee turnover with H2O & LIME

Work experience

Lighting engineer (development)

PRACHT (Alfred Pracht Lichttechnik GmbH, PIT GmbH)
2014 - Current

- Management of product development projects
- Creation and maintenance of technical product data
- Process automation for the creation of technical product data
  - Manipulation of light distribution curves
- Prediction of technical lighting product data by selecting different LEDs and their control gear
- Carrying out product certifications and approvals (ENEC, CE)
- Monitoring and control of supplier products
- Setting up and operating a lighting laboratory
- Calculating the lighting requirements of Deutsche Bahn for LED luminaires
  - Creation of evaluation tables for various Deutsche Bahn lighting scenarios