William Truong

Data Scientist & Lighting Engineer

An experience engineer specialised in the Development of data science applications to support business decision making

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
40% SQL
40% AWS & Cloud
60% Git & Docker
60% Time Series
60% Machine Learning
60% Modeling

100% German
80% English

Work Experience

Lighting Engineer

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

- Development of application using machine learning modeling to estimate and perform analytics on lighting data of luminaires
- Prepare interactive business reports for stakeholder decision making.
- Development of application for the pre-analysis of the electricity consumption of an industrial hall with photovoltaic system
- Explanation of light effects for business colleagues and customers
- Analysis and selection of electronic components
- Controlling and management of luminaire development projects
- Performing certifications in the development (ENEC, CE, UKCA)
- Responsible for the lighting laboratory

Sample Applications:

- Project 1: Estimate Luminaire Data Application (R, Shiny)
- Project 2: Power Consumption Application (R, Shiny)
- Report: Interactive Plots(R, RMarkdown, HTML)

Research and Science

Human-Centric-Lighting

Technical University of Darmstadt
2017 - 2021

- Modeling of the Circadian Stimulus with photometric and colorimetric quantities
- Investigation of light influence on sleep quality and sleepiness of early shift workers

Publications

Journal articles

- Circadian metric -- Computation of circadian stimulus using illuminance, correlated colour temperature and colour rendering index, *Building and Environment 2020*
- Circadian stimulus – A computation model with photometric and colorimetric quantities, *Lighting Research & Technology 2019*
- Modelling of indium(I) iodide-argon low pressure plasma, *Journal of Physics 2014*