RICK TENBÜLT

Data Science Student

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Duizel, Netherlands

Technical Skills

- Python (NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn)
- SQL
- Tableau
- Machine Learning
- Statistics

Competences

- Problem Solving
- Analytical Thinking
- Reporting and Result Sharing
- Interpersonal Skills

PROFILE

A passionate data science student with a business background, pursuing a master's degree at Tilburg University to enrich my skillset with methodologies and tools utilized in data science. Actively engaged in diverse projects, applying my acquired knowledge and continuously improving my technical skillset.

EXPERIENCE

Graduate Intern: Data Scientist

D-Data, 's-Hertogenbosch | September 2023 - February 2024

- Develop a generic, automatic multilevel regression model to analyze data with nested or hierarchical structures
- Involves determining the optimal level at which random effects should be included in the model
- Used to select the appropriate level of grouping based on the structure of the data

Graduate Intern: Data Analyst

ASML, Veldhoven | September 2021 - June 2022

- Developed a preventive maintenance model in Python using the Kaplan-Meier estimator to plot the survival probability for wear-out parts
- Used survival plots and business cases to indicate the need to transition from reactive to preventive maintenance
- Indicated that preventive maintenance can result in an annual cost reduction of over 50% per system compared to the reactive strategy
- Thesis was assessed with a 10 and nominated for the best bachelor's thesis of the academic year

Intern: Business Administration

ASML, Veldhoven | February 2021 - June 2021

- Developed a cost of non-quality model using the life cycle of a part to map the financial impact of part failure for both ASML and the customer
- Improved cost modelling by adding additional cost parameters to improve cost of non-quality calculations

Part-Time Jobs

Cook, Store Clerk, Dishwasher | March 2013 - May 2023

EDUCATION

Master of Data Science and Society

Tilburg University, Tilburg | February 2023 - February 2024

- Courses to be taken: Machine Learning, Deep Learning, Data Mining, Data Processing (Advanced), Statistics, Database Management, Regulation and Law

Pre-Master of Data Science and Society

Tilburg University, Tilburg | September 2022 - February 2023

- Grade: 7.9 (GPA: 3.9/4.0)
- Courses: Programming, Artificial Intelligence, Statistics, Calculus, Research

Bachelor of Business Administration

Avans University of Applied Sciences, 's-Hertogenbosch | September 2018 - June 2022

- Grade: 7.8 (GPA: 3.8/4.0)
- Courses: Information Management, Operations Management, Marketing, Change Management, Accounting
- Extracurricular project: Collaboration between Avans University of Applied Sciences and the UWV to support people with a distance to the labor market

PROJECTS

Concrete Strength Prediction

- Description: Predicted concrete strength to allow civil engineers to accurately assess the structural integrity of buildings or infrastructural projects.
- Technologies: Python, XGBoost, Scikit-Learn, Pandas, Matplotlib, Seaborn.

Hotel Reservation Prediction

- Description: Predicted customer cancellations to improve satisfaction, optimize hotel operations, and enhance revenue management.
- Technologies: Python, XGBoost, CatBoost, Imbalanced-Learn, Scikit-Learn, Pandas, Matplotlib, Seaborn.

Airline Satsifaction Prediction

- Description: Predicted airline satisfaction to improve satisfaction and address passenger needs.
- Technologies: Python, XGBoost, CatBoost, Imbalanced-Learn, Scikit-Learn, Pandas, Matplotlib, Seaborn.

Power Consumption Forecasting

- Description: Forecasted hourly power consumption to allow power companies to plan and optimize electricity generation and distribution.
- Technologies: Python, Prophet, Scikit-Learn, Pandas, Matplotlib, Seaborn.

Loan Approval Prediction

- Description: Predicted loan approval to enable lenders to make informed decisions by analyzing applicants' financial history objectively.
- Technologies: Python, XGBoost, CatBoost, Hyperopt, Imbalanced-Learn, Scikit-Learn, Pandas, Matplotlib, Seaborn.