

# TOM DE VALK

MSc. student Business Analytics at VU Amsterdam, The Netherlands. BSc. in Mathematical Engineering. Python Developer at Baywater Asset Management. Internships at Zilveren Kruis, The Netherlands and Marketing Evolution, New York City. International orientation and culturally aware as a result of upbringing in US, UK and Singapore.



## CONTACT

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- ㏌ Tom de Valk

## SKILLS

### Python

### Machine Learning in Python

### SAS

### Machine Learning in SAS

### Visual Basic for Applications

### R Programming

### SQL

### Java

### HTML/CSS

### Data Visualization

### PowerBI

## PROFESSIONAL INTERESTS

- Data Science
- Machine Learning
- Programming
- Statistics

## LANGUAGES

- English
- Dutch
- Spanish



## HOBBIES

- Fitness
- Basketball
- Photography
- Sports Cars
- Hiking

## EXPERIENCE

- ⌚ 03/2021 - Present      **Teaching Assistant**  
📍 De Vrije Universiteit  
Amsterdam, The Netherlands  
Contribution to the course Computational Intelligence of the BSc. Artificial Intelligence, in the form of assistance for students in online lab sessions, grading of assignments and provision of feedback.
- ⌚ 11/2020 - Present      **Python Developer**  
📍 Baywater Asset Management  
Hilversum, The Netherlands  
Automation of systematic investment strategies.
- ⌚ 09/2020 - Present      **Mathematics Tutor**  
📍 Yellow Education  
Hilversum, The Netherlands  
Tuition of high school students in mathematics.
- ⌚ 06/2020 - 08/2020      **Data Analyst**  
📍 Zilveren Kruis  
Leusden, The Netherlands  
Development of a computer vision model to analyze patient X-rays to enable automated approval of dentist treatments.
- ⌚ 02/2019 - 06/2019      **Data Science & Modelling Intern**  
📍 Zilveren Kruis  
Leusden, The Netherlands  
Development of a neural network model for the prediction of health insurance claims to detect inefficient medical care.
- ⌚ 02/2018 - 07/2018      **Software Development Intern**  
📍 Marketing Evolution  
New York City, NY, United States  
Development of an application to analyze and categorize image and video advertising using machine-learning APIs.

## EDUCATION

- ⌚ 09/2020 - Present      **MSc. Business Analytics**  
📍 VU University  
Amsterdam, The Netherlands
- ⌚ 09/2019 - 07/2020      **Premaster Business Analytics**  
📍 VU University  
Amsterdam, The Netherlands
- ⌚ 09/2015 - 07/2019      **BSc. Mathematical Engineering**  
📍 The Hague University of Applied Sciences  
Delft, The Netherlands
- ⌚ 09/2017 - 01/2018      **Minor Finance & Accounting**  
📍 HU University of Applied Sciences  
Utrecht, The Netherlands

## OTHER EXPERIENCE

- ⌚ 01/2012 - Present      **Basketball Trainer & Coach**  
📍 Eem'78  
Eemnes, The Netherlands  
Coaching and training of multiple basketball teams.

# PROJECTS

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## MSc. Business Analytics

Project Optimization of Business Processes

## Premaster Business Analytics

Machine Learning Project

Big Data Project

## BSc. Mathematical Engineering

KLM Logistics Project

Visual Basic for Applications Project

Methods and Techniques Project

Operations Research Project 1

Actuarial Mathematics Project

Operations Research Project 2

## Minor Finance & Accounting

Financial Management Project

# COURSES

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## MSc. Business Analytics

Applied Stochastic Modelling

Statistical Models

Natural Language Processing

Advanced Machine Learning

Research Seminar Business Analytics

Data Mining Techniques

Deep Learning

Entrepreneurship in Analytics & AI

## Premaster Business Analytics

Stochastic Modelling

Introduction to Programming (Java)

Machine Learning

Statistical Data Analysis

## BSc. Mathematical Engineering

Basic Mathematics

Descriptive Statistics

Graph Theory

Logic and Proving Algorithms

Computer Skills

C-Programming

Differential Calculus

Linear Algebra 1

Project Skills

Visual Basic for Applications

Probability Distribution

Linear Programming 1

Integral Calculus

Research Skills

Linear Algebra 2

Actuarial Mathematics 1

Mathematical Modelling

Communication Skills

Reporting Skills

Estimating and Testing

3D Functions

Object Oriented Programming

Numerical Mathematics

Academic English

Testing Statistics

Differential Equations

Actuarial Mathematics 2

Databases

Number Theory

Economics

Business Economics 1

Marketing 1

Marketing 2

Stochastic Modelling and Simulation

Deterministic Operations Management

Contact with the Client

Clusteranalysis

## Minor Finance & Accounting

Financial Management

Finance and Business Analysis

Financial Reporting

Management Accounting

Management Accounting and Financial

Calculations

## LinkedIn

Advanced Python

Artificial Intelligence Foundations: Machine Learning

Data Visualization for Data Analysts

Deep Learning: Image Recognition

Improving Your Listening Skills

Learning Data Science: Ask Great Questions

Machine Learning and AI Foundations: Recommendations

Python for Data Visualization

Ram Charam on Coaching High Potentials

Persuasive Coaching

Pandas for Data Science

Blockchain Basics

Data Visualization: Storytelling

Presenting Technical Information with Stories

Strategic Thinking

Impromptu Speaking

Neural Networks and Convolutional Neural Networks Essential

Training

How to Stand Out