

# Abel de Wit

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## Abel de Wit

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## Experience

### **Capgemini** / Thesis Intern

FEBRUARY 2022 - PRESENT, Utrecht

During my internship at Capgemini I worked on my master thesis. My thesis explores the possible models and data types for Crop Classification in Satellite images. For this, an understanding of Deep Learning is required to implement and improve models, and analytic skills are required to assess the different outcomes and benchmarks of the implemented models.

With the rise of transformers in language models, the new discovered vision transformers will also be applied to the problem to evaluate whether transformers perform better than traditional CNN architectures.

### **Lightyear** / Working Student

FEBRUARY 2022 - PRESENT, Helmond

During one day in the week I have assisted in creating an API which allows the car to get access to weather data, with the aim of creating ML models that can give insights on whether the car is parked correctly with regards to the sun. This taught me to

### **Lightyear** / Business Development Intern

SEPTEMBER 2021 - JANUARI 2022, Helmond

For this internship I have worked on creating a Business Intelligence tool that can search and analyze patents based on high-level queries, removing the need of in-depth knowledge about patent classifications. The results of the search are then translated to an intuitive dashboard allowing any employee to get a clear competition landscape.

### **Maastricht University** / Teaching Assistant

NOVEMBER 2020 - DECEMBER 2021, Maastricht

As a teaching assistant I led hands-on tutorials on campus and online, where the students had to work on assignments. Next to the tutorials, me and my fellow teaching assistants graded the assignments and provided feedback for the students that missed some points.

Courses I assisted:

- Introduction to Computer Science (Java & Python)
- Calculus
- Data Structures & Algorithms
- Software Engineering

### **Sassen-Dielemans Dickhout / Funeral Assistant**

SEPTEMBER 2017 - DECEMBER 2021, Maastricht

Assisting at funerals has taught me to be flexible on the spot, adapting to changing needs and environments, all while maintaining a professional appearance for the family of the deceased.

### **Dillon Whiskey Bar / Bartender**

NOVEMBER 2019 - DECEMBER 2020, Reykjavik

Working in a bar abroad allowed me to connect both with locals and tourists that were visiting, improving both insights in different cultures as well as communication skills.

### **Bijlesnetwerk / Tutor**

OKTOBER 2017 - MARCH 2019, In and around Maastricht

As a tutor I assisted high-school students with all beta courses they had difficulties with. A good grasp of the material was needed to adapt the teaching methods to each student.

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## **Education**

### **Maastricht University / Msc. Artificial Intelligence**

SEPTEMBER 2020 - PRESENT, Maastricht

A 2-year master's programme with a focus on simulating human intelligence for a wide variety of applications: from game design to patient diagnosis.

### **Reykjavik University / Exchange studies**

JULY 2019 - DECEMBER 2019, Reykjavik, Iceland

Courses:

- Cryptography
- Compilers
- Computer Networks
- Deep Learning

### **Maastricht University / Bsc. Artificial Intelligence & Data Science**

SEPTEMBER 2016 - AUGUST 2020, Maastricht

A 3-year bachelor's programme offering a unique combination of artificial intelligence, computer science and mathematics.

### **International Baccalaureate / English C2: Language & Literature**

Awarded JUNE 2016 - No expiration date

### **Varendonck College / VWO; N&T Profile, Biology, Math level D**

SEPTEMBER 2010 - JUNE 2016, Asten

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## **Projects**

### **Deep Learning Model for Artificial Skin Data Interpretation**

FEBRUARY 2021 - JUNE 2021, Maastricht University

In this research project in a team of 6, the goal was to develop an end to end pipeline to train a model in recognising harmful touches. One half of the project consisted of creating a realistic simulation of the silicone skin in which force sensors were embedded. With this simulation, scenarios could be created to generate training data and labels for the model. The second half consisted of developing and testing several models, including CNN's and Graph Neural Networks, which proved to be effective in discriminating harmful touches from harmless touches.

**Automatic Visual Tutorial Generation for Board Games**  
SEPTEMBER 2020 - DECEMBER 2020, Maastricht University

In this research project in a team of 4, an extension of the Ludii General Game System was made to automatically detect moves that are important for explaining a board game and convert these to visualizations which can then be used to craft a visual 'rulebook' for any given board game.

**GDPR Complicity - Bachelor Thesis**  
JANUARY 2020 - AUGUST 2020, Maastricht University

In this research a web crawler was created to go over 9000+ websites and see how the content of the cookies that are saved to the users' device changed based on the preferences that are provided in the 'cookie banner' that websites have to display according to the new GDPR law. These results were then analyzed to assess how many websites complied with the new laws.

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## Volunteering

**Student Association / Volunteer**  
SEPTEMBER 2016 - PRESENT, Maastricht

As part of the student association I contributed to multiple committees ranging from multimedia to public relations.

- Introduction committee (2019/08 - 2020/08)
- Media committee (2016/09 - 2021/06)
- Charity committee (2018/09 - 2019/06)
- PR-committee (2017/09 - 2018/09)
- Almanak committee (2017/09 - 2018/07)

**Azerbaijan Center / Volunteer**  
FEBRUARY 2015 - MARCH 2015, Houston, TX, USA

As part of bilingual high school education, we had to fulfill a volunteering job in any English speaking country. I helped out with the organization of events in the cultural center, organizational tasks such as filing and setting up of 'get togethers'.

**Somerens Lust / Organization music event: First Strike**  
SEPTEMBER 2014 - OKTOBER 2015, Someren

The percussion group I was part of wanted to organize a recurring music event. I collaborated with 6 others to set up all aspects of an event such as venue booking, guest performances, hiring of PA experts and planning of the event.

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## Skills

### Programming Languages

- **Python** - Advanced (5+ years of experience)
- **Java** - Advanced (5+ years of experience)
- **HTML/CSS** - Beginner (2 years of experience)
- **C++** - Beginner (1+ year of experience)
- **C#** - Beginner (Just started learning)

### Languages

- **Dutch** - Native
- **English** - Advanced (C2 on CRF Scale)
- **German** - Novice (able to understand written and spoken text)