

# Aleksandra Elena Getman

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## EDUCATION

### Katholieke Universiteit Leuven (KU Leuven)

*MS.c. in Artificial Intelligence, Engineering and Computer Science*

**Leuven, Flemish Brabant**

*Graduation Date: June 2024*

### Katholieke Universiteit Leuven (KU Leuven)

*MS.c. in Statistics and Data Science, Business*

**Leuven, Flemish Brabant**

*Graduation Date: June 2023*

### Vrije Universiteit Brussel (VUB)

*BS.c. in Business Economics, Business & Technology*

**Brussels, Brussels-Capital Region**

*Graduation Date: June 2021*

⇒ Organizations: Brussels Association of Business Economics, Solvay Business School

## SKILLS & INTERESTS

**Skills:** PyCharm | Jupyter Notebook | Visual Studio | Git | IDE | Neo4j | Tableau | Mango DB | SQL (My SQL, NoSQL, SQLite) | Arena | RapidMiner Studio | Microsoft Office (Excel, Word, Access, PowerPoint, Outlook,...)

**Language Skills:** English | Dutch | Russian | French

**Programming Languages:** R-Script | Python (NumPy, TensorFlow, Pandas, Matplotlib, Scikit-Learn, Keras, ...) | SAS | HTML | CSS | JavaScript | SQL | Cypher

**Interests:** Machine Learning (Supervised and Unsupervised Learning) | Deep Learning | Multivariate Statistics | Computer Vision | Robotics | Neural Networks | Reinforcement Learning | AI solutions | Analysis (descriptive, predictive, prescriptive)

**Soft Skills:** Critical thinking | Problem-solving | Collaborative | Presentation | Flexible | Lifelong Learning | Positive

**Statements of Accomplishments:** Datacamp: Data Scientist with R | Datacamp: Data Analyst with R

**Certificates:** SAS Certified Specialist: Base Programming Using SAS 9.4

## WORK EXPERIENCE

### Noordzee Drones

*Junior Data Analyst*

**Zeebrugge, West-Flanders**

*September 2019 – January 2020*

- Analyzed existing drones training programs to identify areas that needed adjustment to comply with EASA regulation, resulting in a program redesign that increased compliance by 80%.
- Utilized descriptive tools to analyze the data gathered from the market research survey (using Google Forum and reaching a response rate of 73%), providing valuable insights for targeting potential customers for the drones training program.
- Represented the company at corporate events and fairs, ensuring brand visibility and attracting potential clients.
- Assisted in the development of a streamlined process for setting up and cleaning up after drone training classes, reducing setup time by 50% and improving overall efficiency.

## PROJECT EXPERIENCE

### Katholieke Universiteit Leuven (KU Leuven)

*Researcher*

**Leuven, Flemish Brabant**

*September 2022 – June 2023*

- Build two movie recommendation systems based on Item Response Theory (IRT) - and Hybrid Recommendation (combination of collaborative filtering, content-based filtering, and demographic recommendation technique) approach in R using MovieLens Dataset
- Compared the two recommendation systems against one another in terms of performance (MAE, MSE, and ARC) and operation (i.e., interpretability, scalability, and efficiency)
- Introduced additional two simple models which served as baseline in comparison i.e., random recommendation model and non-personalized recommendation model
- Concluded that IRT model is making significantly more mistakes in recommendations, hence less precise and accurate, compared to hybrid recommendation approach, resulting in final grade 14.4/20

**Vrije Universiteit Brussel (VUB)**

**Brussels, Brussels-Capital Region**

*Researcher*

*September 2020 – June 2021*

- Tested how subjective well-being and job satisfaction affect teleworking during the COVID pandemic by surveying Qualtrics with 200+ participants
- Researched and identified 24 key questions with a Cronbach's alpha between 0.80 and 0.90 to assess subjective well-being and job satisfaction, resulting in a more comprehensive survey
- Utilized generalized linear models and analysis of variance (ANOVA) testing in Python to validate the academic prior research and their hypotheses
- Determined that implementation of telework has no discernible impact on subjective well-being and job satisfaction, resulting in final grade 18/20

## **LEADERSHIP EXPERIENCE**

**Kazou**

**Putten, the Netherlands**

*Volunteer*

*July 2018 – July 2018*

- Organized with 5 colleagues from various backgrounds a 1-week summer vacation camp for 60+ children between the age of 10 and 11 years old by arranging various daily activities, stay at the hostel, meals, and accompanying children's safety during the trip.