

Michał Łubiński

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I am a dynamic and creative Data Science & AI student with four years of lifeguard experience, showcasing strong problem-solving skills and adaptability in high-pressure situations. Passionate about applying technical skills, such as Python and Java, to real-world challenges. Aiming to bring analytical thinking and innovative solutions to the tech industry.

Professional experience

Lifeguard

Various Locations, Germany & Poland

July 2021 - August 2024

- Ensured safety on beaches and lakes, providing first aid and supervising large areas.
- Developed teamwork and leadership skills while coordinating with other lifeguards.
- Gained experience in maintaining and preparing rescue equipment for daily operations.

Education

Bachelor: Data Science & AI

Maastricht University - Maastricht August
2024 to Now

High School student

Gymnasium Nr. 5 in Stettin/High School no. 5 in Szczecin - Szczecin, zachodniopomorskie
September 2020 to May 2024

Projects

Project: Student Performance Prediction and Analysis (java based)

The project focused on analyzing and predicting student performance using a three-phase approach:

Phase 1: Data Preparation and Analysis

- Gathered and cleaned datasets, focusing on student grades and attributes.
 - Conducted exploratory analysis to uncover patterns, such as correlations between courses and performance trends.

Phase 2: Data Visualization and Interface Development

- Designed an interactive GUI to visualize key insights from the data.
- Implemented charts like bar graphs, scatter plots, and histograms to provide a clear summary of findings.

Phase 3: Machine Learning Model Development

- Built and optimized a **Random Forest model** to predict student grades based on attributes.
- Developed decision trees using recursive splitting and evaluated splits with Standard Variance and Weighted Variance.
- Conducted parameter tuning, such as optimizing the minimum leaf size, to improve model stability and performance.
- Finalized a robust prediction system capable of handling missing grades while ensuring stable and accurate predictions.

Skills acquired

Skills Acquired (30/09/2024 - 17/01/2025):

Data Analysis and Visualization:

- Processed and explored educational datasets, identifying key performance patterns.
- Developed interactive visualizations (bar charts, scatter plots) in JavaFX/SWING to present insights effectively.
- **Machine Learning:**
 - Built and optimized **Random Forest models** by implementing decision trees with split evaluations using Standard and Weighted Variance.
 - Conducted parameter tuning (e.g., minimum leaf size) to improve model stability and accuracy.
- **Programming Expertise:**
 - Proficient in **Java**, with experience in building complex decision tree algorithms and handling data structures.
- **Collaboration and Communication:**
 - Collaborated within a team to analyze results and refine modeling techniques for practical applications.

Certificates and licenses

IELTS Academic - band 7 (C1)

December 2023 to December 2025

The IELTS Academic test is designed to measure your English language proficiency and to assess if it is suitable for an academic environment. The test reflects aspects of academic language and evaluates whether you're ready to begin training or studying in English.

Skills

Technical Skills: Python, Java, Data Analysis, git, maven, First Aid (4 years).

Languages: English (C1), German (A2).

Soft Skills: Quick learner, teamwork, adaptability, creativity.

Wyrażam zgodę na przetwarzanie danych osobowych zawartych w niniejszym dokumencie do realizacji obecnego procesu rekrutacyjnego zgodnie z ustawą z dnia 10 maja 2018 roku o ochronie danych osobowych (Dz. Ustaw z 2018, poz. 1000) oraz zgodnie z Rozporządzeniem Parlamentu Europejskiego i Rady (UE) 2016/679 z dnia 27 kwietnia 2016 r. w sprawie ochrony osób fizycznych w związku z przetwarzaniem danych osobowych i w sprawie swobodnego przepływu takich danych oraz uchylenia dyrektywy 95/46/WE (RODO).