

Nabil Arrouss

MSc Artificial Intelligence and Data Science

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Education

MSc AI and DS | Heinrich Heine University

Düsseldorf, Germany | October 2024 – current

- Advanced coursework combining machine learning, deep learning, and applied data-driven problem solving.

BSc Computer Science | University of Pécs

Pécs, Hungary | 2021– 2024

- Notable Modules: Programming, Methodology of Programming, Object-Oriented Programming, Data Structures and Algorithms, Database Management, Probability and Statistics, Data Analysis and Introduction to Artificial Intelligence.

Work Experience and Projects

Data Analyst Intern (Online) | Computer Planet Mainz

Mainz, Germany | July 2023 - August 2023

- Data collection, cleaning, and analysis to ensure accuracy, consistency, and usability of datasets.
- Data visualization and report creation to clearly communicate insights and support decision-making.
- Participation in research and development by assisting with experiments, prototyping, and evaluation of methods.

BSc research work | University of Pécs

- Thesis topic: Estimating the partial charges in organic molecules via machine learning.
- Developed a deep learning model to estimate partial atomic charges in organic molecules from molecular data.
- Performed data pre-processing, hyperparameter tuning, and model evaluation with error analysis.

Skills

- Programming Languages and Version Control:** Python, Java, C++, PHP, Git, GitHub, Gitlab.
- Web Development:** HTML, CSS, PHP, Bootstrap, Java (Spring Boot), JavaScript.
- Database Management:** MySQL, SQL Server, PostgreSQL.
- Data Science & Machine Learning Frameworks:** NumPy, Pandas, Seaborn, Matplotlib, Scikit-Learn, TensorFlow.

Portfolio

Visit my online portfolio to explore selected projects in Deep Learning, Machine Learning, and Software Engineering:
<https://nabil-arrouss.github.io/>

Languages

- Arabic: Native
- English: B2
- French: B1
- Hungarian: B1
- German: A1