Marcell Szokedencsi

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Education

Universtiy of Groningen Expected 2026

Bachelor in Artificial Intelligence *Groningen, Netherlands*

- **Relevant Coursework:** Data Structures and Algorithms (Python), Statistics (R), Object-Oriented Programming (Python), Linear Algebra and Multivariable Calculus, Calculus I

Projects

Text-Based RPG Development | *Python*

Designed and implemented a Python-based text RPG, demonstrating advanced proficiency in object-oriented programming principles such as encapsulation, inheritance, and polymorphism. Developed core features including a modular inventory system, interactive NPCs, a robust combat mechanism, and state management with save/load functionality using JSON. Collaborated using GitHub for version control, ensuring clean code practices and maintainability.

AutoML Library Development | *Python, pydantic, pandas, numpy, scikit-learn, seaborn, matplotlib*

Developed a Python-based AutoML library with a user-friendly Streamlit interface, enabling seamless dataset management, pipeline configuration, and model training. Implemented modular pipelines for preprocessing, training, and evaluation, with artifact management for reproducibility. Applied advanced OOP principles, including inheritance and encapsulation, to create maintainable, scalable, and efficient code.

Technical Skills

- **Version Control**: Git, GitHub
- **Programming Languages**: Python, SQL, R, MATLAB
- **Frameworks and Libraries**: TensorFlow, PyTorch, scikit-learn, Pandas, NumPy
- **Data Visualization Tools**: Matplotlib, Seaborn, Plotly
- **Development Tools**: VSCode, Jupyter Notebook, SSMS, Streamlit
- **Software Engineering**: Object-Oriented Programming (OOP), Agile Methodologies
- **Testing and Debugging**: Unit Testing, Integration Testing, Flake8
- **Workflow Automation**: Pre-commit Hooks, Makefiles

Extracurriculars

Member, Study Association Cover September 2023 – Present

University of Groningen, Netherlands

- Engaged in activities organized by Cover, the study association for Artificial Intelligence and Computing Science students at the University of Groningen.
- Participated in social events, study support lectures, and career-oriented workshops to enhance academic and professional development.
- Contributed to the association's initiatives aimed at fostering a collaborative and supportive community among students.