

Curriculum Vitae

Personal Information

Name: Vince Németh

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Summary

Enthusiastic and detail-oriented BSc Data Science & AI student at Breda University of Applied Sciences, with hands-on experience across AI development, data engineering, and software prototyping. Comfortable switching between practical projects and theoretical foundations, with a strong interest in building interpretable, user-centered machine learning applications. Always up for learning new tools and frameworks, I bring curiosity, persistence, and a builder's mindset to every challenge.

Education

BSc in Applied Data Science & Artificial Intelligence | 2024 – Present

- Broad foundation in AI & Data Science, including:
 - Introduction to AI concepts, Python programming, and data visualisation
 - Mathematical foundations like linear algebra and calculus
 - Data analysis techniques and SQL for data handling
 - Deep learning basics, explainable AI, and image classification
 - Agile project management, time series analysis, and stakeholder management
- Practical experience through multiple DataLab projects focusing on real-life AI applications
- Core modules:
 - Statistics
 - Python programming
 - Creating deep learning models
 - Development experience in AI:
 - Neural networks for enhanced performance

- Utilizing neural networks for complex pattern recognition
- Data Processing
- Software Engineering
- Human-Centered Design

Vetési Albert Gimnázium – French Bilingual Faculty | 2019 – 2024

- Advanced-level Mathematics and Computer Science courses
- Participated in MTA Tanulmányi Verseny (2023)

Experience

AI Developer & Researcher (Student Projects) | 2024 – Present, Breda University

- Developed and fine-tuned AI models in various team-based projects
- Key projects:
 - *Digital Advisor*: Predictive investment system using clustering (K-Means) and LSTM forecasting
 - *Automated Vehicle Damage Assessment*: Image classification using CNN and a hybrid model
- Responsible for training models, managing datasets, and presenting results

Supplier Quality Assurance Assistant | Summer 2024, Valeo

- Assisted with supplier audits, data logging, and process documentation
- Gained insight into procurement logistics and quality control workflows

Freelance / Personal Tech Projects | 2018 – Present

- Taught informatics to a group for one month
- Built a 2D strategy game using the Godot 3 engine
- Developed a mini pandas-like library using only core Python libraries
- Set up, configured, and managed Raspberry Pi systems for automation and learning
- Flashed and optimized old Android devices with custom ROMs

- Created and administered a TrueNAS system for home server use
- Worked on Arduino-based sensor projects (motion/flex sensors)
- Assisted in organizing logistics and tech for youth summer camps

Key Skills

- **Programming:** Python, HTML, CSS, Bash, Arduino (sensors), React (basic), JavaScript
- **Web Frameworks & Frontend:** Streamlit, Gradio, Shiny for Python, Flask, React (basic), HTML/CSS
- **AI / Machine Learning:** Familiar with a range of models and tools such as MLPs, CNNs, LSTMs, clustering, classification, regression, and validation techniques (e.g. K-Fold), AI and Neural network development, Creating deep learning models
- **Package/Environment Management:** Poetry, venv, conda
- **Tools & Platforms:** Docker (basic setup), PostgreSQL (basic), Git/GitHub, virtual environments (venv & conda), npm, Godot Engine, TrueNAS
- **Hardware & Systems:** Raspberry Pi (setup, configuration, and advanced use), TrueNAS
- **Soft Skills:** Fast learner, problem solver, adaptable, team-oriented, enjoys tinkering and experimenting with technology, team leadership

Certifications

- *Zero to AI Hero: AI Development in Python* – Udemy (2024)
- *Cambridge CAE Certificate* (Score: 190) (2023)

Languages

- English – Fluent
- Hungarian – Native
- French – Intermediate

References

[NotNeo - itch.io](https://itch.io/NotNeo)

[Németh Vince - GitHub](https://github.com/NemethVince)

Interests

- DIY tech projects, from home automation to game dev
- Playing and analyzing video games

- Traveling (visited 16+ countries)
- Sports: Judo, Swimming, Tennis, Wall climbing, Gym