Ognjen Čanković

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Education:

- **Informatics and Computer Science**
  Gymnasium "Jovan Jovanović Zmaj", Novi Sad - 2021
- **Informational Engineering (Data Science) - 9.03/10 GPA**
  Faculty of Technical Sciences, Novi Sad - 2021 – 2025 (expected)

Personal statement:

My personal goal is to learn as much as I can and to continue developing innovative solutions that I can apply to real-world challenges.

Projects and Experience:

Transformer Architecture for Text Generation

- Developed a Transformer model replicating the original paper "Attention Is All You Need" for text generation tasks.
- Utilised batching, parallelism and optimised hyperparameters, such as the number of layers and dropout rates, to improve model performance.
- Implemented distillation to my custom 3 million parameters model and distilled PHI-2 on cat data to my original transformer, getting repetitive outputs when trained locally

Code for a Cause Hackathon, Participant, VegaIT

- Collaborated with a team of 12 on developing a humanitarian website for ZUKO (Women's Association of the Kolubara District).
- Completed all 7/7 assigned tasks on the front end using React, enhancing team morale.

Various Software Development Projects

- **Data cleaning, processing and analysis** of Titanic and Wine datasets, using feature extraction, one hot encoding, normalisation, and methods like Logistic Regression, Random Forest, SVC, PCA…
- **GoodReads Clone, Music Showcasing Website, Apartment Management Application:** Developed full-stack applications using Vue, React, NodeJS, Spring Boot, WPF, and various databases (H2, MongoDB).
- **Godot FPS Game:** Developed a first-person shooter (FPS) game using GDScript and the Godot engine, implementing movement, enemies, sound and learning a new programming environment.
- **Card Game Sedmice Bot:** Created a monte carlo reinforcement learning bot

Skills Developed

- **Programming Languages**: Python, Java, C, C++, JavaScript, SQL
- **Libraries**: Torch, Pandas, NumPy, Matplotlib, Transformers, Faiss
- Continually learning, and researching topics like Mathematics, Computer Science, Economics, completing various online OCW lectures from MIT and Harvard