



Jovan Jovanović

Computer Science student · Machine learning · Applied AI

PROFILE

Final-year Computer Science student. I am greatly interested in AI and machine learning. Looking for ML / AI work where I can improve my skills.

PROJECTS

word2vec from scratch - github.com/Baladoodle/word2vec

Python · NumPy · skip-gram with negative sampling

- Pure NumPy implementation of word2vec (skip-gram with negative sampling) without using ML frameworks.
- Forward pass, cross-entropy loss with negative samples, and the gradient updates over the embedding lookup implemented from scratch.

Cloud Latency Scraper - github.com/Baladoodle/tennessine

TypeScript · Three.js · Vite · Bun · Tailwind CSS

- Interactive 3D globe visualizing real-time latency and status updates scraped from AWS, GCP, and Azure.
- Built with Three.js for WebGL rendering, a Bun server that scrapes provider status pages, and Vercel serverless functions for the API layer.

EU AI Act RAG Chatbot - github.com/Baladoodle/eu-ai-rag

TypeScript · Next.js · Mastra · Voyage AI · pgvector · Anthropic API

- Answers questions about the EU AI Act. Each claim is grounded in a retrieved Article, Recital, or Annex, and the assistant refuses to answer when retrieval confidence is below threshold.
- 95.1% accuracy on a sample test evaluation. The remaining 4.9% is recall, not a precision issue.

SKILLS

— **Machine learning:** supervised & unsupervised learning, evaluation metrics, embeddings, RAG, vector search, data preprocessing.

— **Engineering:** Python, SQL, Git, Docker, Linux (avid arch user); relational databases (SQLite, PostgreSQL).

COURSEWORK

Artificial Intelligence · Computer Vision · Data Structures · Databases · Object-Oriented Programming

CONTACT

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GITHUB

github.com/Baladoodle

EDUCATION

BSc Computer Science

Faculty of Electronic Engineering,
University of Niš

2022 - 2026

GPA 7.73 / 10.00

LANGUAGES

Serbian - 5/5

English - 5/5

STACK

Python, NumPy

PyTorch, Hugging Face

Git, Docker, Linux

PostgreSQL, SQLite

NextJS, Vue