

# VLADYSLAV HORBATENKO

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## SKILLS

**Technical Skills:** Python, Java, MySQL, C#, Git, REST API, Fast API, Agentic LLMs, LLaMA AI, OpenAI  
**Frameworks:** DSPy, Pydantic, LangChain, MCP  
**Other:** AWS, GCP, Pandas, Numpy, Matplotlib, Seaborn, SciPy, Tensorflow, PyTorch, Scikit Learn, Pinecone, ChromaDB, LangGraph, LangSmith, HuggingFace, LaTeX

## WORK EXPERIENCE

**AI Engineer (part-time)** **Sep 2024 – Present**  
Tryp.com *Denmark, Copenhagen*

- Developing and optimizing a LLM-based customer support chatbot: improved multi-turn dialogue handling, achieved 86% intent recognition accuracy, reduced average response time by 83%, and handle 74% of all inbound inquiries ( $\approx 5,500$ /month).
- Developing a predictive model to estimate ticket-price change durations using over 70 million flight records.
- Visualizing and pre-processing data in from AWS Athena and GCP BigQuery into interactive dashboards.

**Co-Founder (Lead AI Engineer)** **Jan 2025 – Present**  
CoreAI *Denmark, Copenhagen*

- Deployed an AI chatbot system based on AWS Bedrock, providing 24/7 multilingual support doe Danish social help, higher education, and Swedish migration support, with other Nordic regions in development.
- Built a microservice-like AWS backend (API Gateway, Lambda, DynamoDB, LightSail) with a RAG pipeline for real-time responses and booking integration (EasyWeek API).
- Integrated Telegram and WhatsApp frontends via API Gateway & Lambda for fast user access.
- Co-authored the AWS Machine Learning Blog post “Build a scalable AI assistant to help refugees using AWS.”
- Leading a team of 2 AI engineers: providing technical guidance, code reviews, learning materials, and collaborating with other developers on key system components.
- Involved in business strategy, including Lean Canvas development, financial planning, investor materials, and public presentations.

**Teacher Assistant** **Sep 2024 - Dec 2024**  
Roskilde University *Denmark, Roskilde*

- Guiding 52 students on debugging, problem-solving, and coding practices in a Java programming course.
- Providing feedback and grading on weekly homework assignments.

## PROJECTS

**Bachelor Project: Deep Learning-based Table Extraction from Pharmaceutical PDFs** **Feb 2025 – Jul 2025**  
Novo Nordisk

- Fine-tuned a transformer-based table extraction model TATR to locate tables with 94% precision.
- Developed program to prse table structure (rows, columns, headers) to automate data extraction and cut manual work.
- Reduced manual processing time and improved data consistency and fidelity.

**Data Science | Podcast Watch Time Prediction (Github)** **May 2025 - June 2025**  
RUC University

- Cleaned and validated real podcast listening data, conducting EDA to uncover key trends.
- Engineered new relevant features and built models (XGBoost, Linear Regression), tuning them with Optuna for optimal feature selection.
- Visualized insights and delivered a predictive model to inform content planning and boost user engagement.

## EDUCATION

**Technical University of Denmark DTU: MSc in Human-Centered Artificial Intelligence** **Sep 2025 - Jun 2027**

**Roskilde University RUC: BSc in Computer Science and Mathematics** **Sep 2022 - Jun 2025**