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 70%, and handle 51% 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.

Software Developer (part-time)   **Jan 2025 – Present**
Bevar Ukraine   *Denmark, Copenhagen*

- Deployed an AI chatbot based on AWS Bedrock, providing 24/7 multilingual social support.
- 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.
- Authored the AWS Machine Learning Blog post "Build a scalable AI assistant to help refugees using AWS."

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.

Project Collaboration: API Integration (Github)   **Feb 2024 - Jun 2024**
Focalx

- Built an automated schema matching tool with with Python (BERT AI and REGEX) for more efficient CRM data integration with REST API.
- Developed integrations and a ChatBot for seamless API connections with HubSpot, ClickUp, and enhanced user interactions trough Telegram chat bot.

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**