


DAVID POSLUŠNÝ

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Education

Prague University of Economics and Business

Knowledge and Web Technologies · Quantitative Analysis

2023 – 2025

Master's degree

Prague University of Economics and Business

Applied Informatics

2019 – 2023

Bachelor's degree

Smíchovská střední průmyslová škola a gymnázium

Information Technologies

2015 – 2019

High school

Experience

Jesenice Municipal Office

IT Support

2017 – 2018

Department of Culture and Presentation

- Redesigned the official city website.
- Designed websites for the city's cultural events.
- Carried out data processing in Excel.
- Assisted in the operation of the city's CzechPOINT office.

Projects

Exploration and Comparison of Transformers for Image Classification

Prague University of Economics and Business

2025

Master's thesis

- Designed a comprehensive evaluation framework for Transformer-based models
- Fine-tuned pre-trained Vision Transformer models (ViT, DeiT, Swin, CLIP) on diverse datasets
- Conducted 120+ model training experiments across multiple domains
- Achieved 95.8% accuracy on remote sensing classification tasks
- Implementation from scratch using PyTorch + HuggingFace Transformers
- Created detailed comparison and visualization of results using Pandas + Seaborn
- Published research findings demonstrating superior performance of hierarchical Vision Transformers
- **Thesis won rector's award for scientific publications by students (ESOP 2025)**

Portál dědice

Prague University of Economics and Business and Applifting

2025

Semester project

- Developed an innovative platform connecting heirs and notaries using React + TypeScript
- Implemented GraphQL API with Drizzle ORM and MySQL database
- Created an interactive step-by-step guide for inheritance proceedings
- Collaborated with Applifting company on real-world application use-case

Skills

Languages: Python, JavaScript, TypeScript, React, Java, C#, PHP, R

Machine Learning: PyTorch, TensorFlow, Transformers, Scikit-learn, SpaCy, NLTK

Deep Learning: LangChain, LangGraph, Computer Vision, LLMs, GenAI, AI Agents, RAG

Data Science: PySpark, Azure, Statistical Analysis, Model Evaluation, Data Visualization

Others: Git, Markdown, SQL

Languages

Czech: Proficiency at native level

English: Knowledge to enable professional work