

TOM BUKIC

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Creator of LangTree. Data Scientist building AI solutions from research to production with 6+ years of experience.

EXPERIENCE

Data Scientist, Owner

Jan 2024 – Present

accelerate

Zagreb, Croatia

- Created LangTree (ac8.ai/langtree) - a tool for complex LLM workflow orchestration.
- Implemented AI-based solutions (RAG, semantic clustering, document processing, synthetic data generation, LLM-as-a-judge) for various industries.
- Executed research in AI for healthcare (voice analysis for detecting cognitive impairment).
- Executed time series analysis and prediction, advanced statistical analysis, and created reinforcement learning solutions.
- Built and managed on-premises GPU workstation running Debian for ML infrastructure. Deployed local LLMs, VertexAI, AWS, Databricks, HPC.
- Built ontologies and data models. Created data ingestion and cleaning pipelines.
- *Technologies*: Python, LangChain, LangGraph, HuggingFace, transformers, BERTopic, torch, PyTorch, sklearn, CatBoost, MLFlow, rllib, Ray, VertexAI, AWS, Databricks, Dask, Prefect, Docker, Kubernetes, AAS, OWL

Data Scientist

Nov 2021 – Dec 2023

AVL

Zagreb, Croatia

- Designed and built end-to-end ML solutions and digital twin software. Established reinforcement learning effort resulting in 2 conference publications. Mentored junior colleagues.
- Set up cloud data ingestion pipelines from vehicle to cloud. Executed data science projects for leading automotive OEMs.
- *Technologies*: Python, RLLib, MLFlow, Prefect, Dask, Docker, Kubernetes, Azure

Machine Learning Engineer

Feb 2020 – Jun 2020

BID

Remote

- Fine-tuned early BERT model with touristic sector data. Integrated with RASA before default inclusion.

Alpha tester

Jan 2020

deeplearning.ai

Remote

- Reviewed and improved two courses in NLP specialization.

Machine Learning Engineer

Jul 2019 – Sep 2019

Bricsys

Gent, Belgium

- Created NLP prototype for automated processing of support requests.

Machine Learning Intern

Jul 2018 – Sep 2018

Ericsson Nikola Tesla

Zagreb, Croatia

- Implemented reinforcement learning agent for Ludo game in team of 3. Created game engine and visualization.

Data Science Intern

Jul 2014 – Jan 2015

Multicom

Zagreb, Croatia

- Created prototype for text searching algorithms on Oracle database.

EDUCATION

MsC Applied Cognitive Science (ongoing), University of Zagreb

MsC Applied Mathematics (thesis remains), University of Rijeka

BSc Mathematics, 2017, University of Rijeka

TECHNICAL SKILLS

ML & AI: LLMs, NLP, Deep Learning, RL, Time Series, Model Discovery | PyTorch, scikit-learn, transformers, BERTopic, LangChain, LangGraph, HuggingFace, Ray, RLLib

Data Engineering: Python, Pandas, NumPy, MLFlow, Dask, Prefect, Jupyter

DevOps & Infrastructure: Docker, Kubernetes, Apptainer, Linux/Debian, GitLab CI, GitHub Actions, AWS, Azure, HPC