Lukas Bierling Resume

▶ Status: Machine Learning Student Consultant at KPMG, Currently studying

triple Bachelor of Computer Science, Information System and Eco-

nomics

Skills: Python, Pytorch, Javascript, Typescript, Go, Java, Docker, Azure,

Google Cloud, SQL

▶ Interests: Deep Lerning Theory and Practice, Computer Vision, NLP, Reinforce-

ment Learning, Data Science, Backend Development, Frontend De-

velopment

Activities: Basketball, Gym, Reading, Philosophy



Fachinstitut für

ausländisches Steuerrecht

Summary

06/2021

12/2021

I am Bachelor student of three independent degrees: Computer Science, Information Systems and Economics. My passion is located in the field of AI, especially the theory and application of Deep Learning. I wrote my Bachelor thesis about efficient Transformer architectures in the domain of financial NLP. I am very proficient self learner and love to explore the world of AI and Deep Learning in depth. Currently I am working as a Machine Learning and Full-Stack Developer student consultant at KPMG, where I solve real-world problems of clients with customized solutions. Concurrently, I am also starting the role of research assistant at the University of Passau in the area of Deep Learning for financial NLP. Apart from that I love doing private projects to strengthen my skills in these fields. A detailled overview of them can be found on my portfolio page.

>>> Experience	e	
'24/03 - now	Research Assistant	University Passau
	Starting a position as a research assistant in the field of Mach Deep Learning with custom Transformer models, in financial NLP	ine Learning, especially
05/2022 -	Machine Learning and Full-Stack Consultant	KPMG Munich
Present	 Developed and implemented bespoke machine learning mod computer vision and NLP, utilizing Python, PyTorch, and Azure. Key detection, segmentation, counting, and advanced language mode Engineered comprehensive front-end and back-end solutions, Express for server-side operations and React for client-side interfauser experiences. Applied sophisticated statistical methods for time series analy lizing tools like Facebook Prophet and gradient boosting techniqual algorithms to analyze and interpret complex data sets. Specialized in deconstructing large-scale challenges into manadopting a systematic approach to problem-solving that facilitate solutions. 	y projects include object el applications. leveraging FastAPI and aces, ensuring seamless ysis and forecasting, utilies, alongside clustering hageable sub-problems, es efficient and effective
10/2021 - - 04/2022	Financial Mathematics Intern	PwC Frankfurt am Main
	 Applied advanced financial modelling techniques for the valuation of complex financial instruments including options, swaptions, rainbow options, and FX-swaps. Utilized a variety of statistical models to address market and liquidity risk modelling challenges, enhancing risk assessment accuracy. Gained proficiency in Bloomberg Terminal for extracting critical financial data, streamlining the data analysis process for valuation models. Developed a Python-based tool for the efficient large-scale valuation of mark-to-market 	

Researched in foreign law texts to identify relevant tax regulations and guidelines.

assets, significantly improving operational efficiency.

Data Analyst

- ▶ Extraction and analysis of data found in foreign law texts to prepare it for internal use, ensuring compliance with international tax laws.
- Developed and maintained a database of foreign tax laws, facilitating easier access and analysis for ongoing and future projects.

02/2021 05/2021

Business Consultant Intern

FMC Passau

- ▶ Supported the foundation of a startup from scratch, contributing to strategic planning and operational setup.
- ▶ Facilitated client communications, understanding their needs and providing tailored advice to enhance their satisfaction and engagement.
- ▶ Conducted comprehensive market research to inform business strategies, identifying key trends and opportunities in the tax law sector.
- ▶ Provided data analytics support, applying quantitative analyses to guide decision-making and improve business processes.

Educatio	n	
2023 - now	Bachelor of Science Computer Science	Fernuniversiät Hagen
	 Additional Bachelor degree in Computer Science with a focus on Mathematics to strenghten my knowledge and skills of academic maths to apply it to research in the field of Deep Learning Current Grade: 1.3 	
2022 - now	Bachelor of Science Information Systems	Universität Passau
	 Focussing on Full-Stack development and Machine Learning Current Grade: 1.6 	
2020 - now	Bachelor of Science Business Adminstration and Economics	Universität Passau
	 Thesis: Assessing Efficiency in Domain-Specific Transformer Models: Comparing, Pretraining, and Finetuning Small-Scale Transformer Models within Hardware Limitations for Financial NLP Focussing on Machine Learning, Statistics and Macroeconomics 	

- Focussing on Machine Learning, Statistics and Macroeconomics
- Current Grade: 1.5