

Hao Zhang

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EDUCATION

2015.9~2019.6	Guangzhou University	Bachelor of Engineering in Network Engineering
2020.4	TU Darmstadt	Informatik(Master)
GPA	1.5	

INTERNSHIP

2023.11~2024.5	Internship at Allianz Global Investor	Darmstadt
<ul style="list-style-type: none">● Implemented data upload tool and automated the data-uploading procedure● Implemented frontend UI via Streamlit and SQL to simplify the operation of SQL server.● Deploy the micro service via k8s in Azure Cloud Maintain access.		
2022.4~2023.4	HiWi at UKP Lab	Darmstadt
<ul style="list-style-type: none">● Implemented the UI and API for project UKP-SQuARE (square.ukp-lab.de).● Merged Graph neural network based Question-answer model into UKP-SQuARE platform.		
2022.4~2023.10	HiWi at PTW Lab	Darmstadt
<ul style="list-style-type: none">● Implemented a XGBT model to classify quality of product from lathe.● Achieved 0.92 F1-score on the unseen data.● Completed the SmartOfficeStation project.		
2021.5~2021.7	HiWi at SEEMOO Lab	Darmstadt
<ul style="list-style-type: none">● Maintained Nextcloud and backup server, addressed bugs of Nginx.● Documented the configuration of service by using the Git Lab.		

PROJECTS

2023.05~2023.10	Master Thesis: Grounding Text Generation with Knowledge Graphs	
<ul style="list-style-type: none">● Fine-tuned T5 model on CSQA dataset as baseline, got 0.70 accuracy.● Grounded generative model T5 on knowledge graph ConceptNet● Pretrained graph based T5 model on Bookcorpus data● Fine-tuned graph based T5 model and got improvement 6.4% and 5.3% on dev and test set		
2022.04~2022.07	Project Seminar: Wettbewerb KI in der Medizin	Darmstadt
<ul style="list-style-type: none">● Implemented a parallelized (1d-CNN+LSTM) model● Achieved 0.94 F1-score on unseen data.		

- Used a Random over sampling to address unbalance data set.

2021.09~2022.01 Course Side Project: Skin-lesion Detection

Darmstadt

- Implemented an ensemble Model with 5 CNN based model as weak classifiers.
- Used majority voting got the accuracy higher than 89%.
- Used Gradio to implement a WebUI for Skin-lesion Detection task

PUBLISHED PAPER

- UKP-SQuARE v2: Explainability and Adversarial Attacks for Trustworthy QA
- UKP-SQuARE v3: A Platform for Multi-Agent QA Research

TECHNICAL SKILLS

Proficient in : Python (Proficient), Vue.JS(Familiar) C/C++(Familiar)

Machine Learning: SVM,RF,GBDT,AdaBoost,NB,K-Means

Deep Learning : CNN, LSTM, Transformer, BERT, Roberta, T5, GNN, GCN, GraphSAGE, GraphAttention Networks

Web Development: HTML, JavaScript, CSS3, XML, Wordpress,VueJs, Django, FastAPI

Database: SQL, Mysql, MongoDB

Data Science: Pytorch, Scikit-learn ,Numpy, Pandas, Spacy, gensim

DevOps: Linux ,Nginx, Bash, Docker, Vim, Git ,Latex, Vmware, Azure, Kubernetes, Dremio, Datadog, Confluence

LANGUAGE SKILLS

TestDaf : 17

English : B2~C1