Yuchang Zhang
Master of Science

Address
Turmstraße 85, 10551
Berlin, Germany

Tel
+4915908178369

Mail
yuchang.zhangg@
gmail.com

Statistics Tool Libraries Used
R Advanced
Python Excellent
SPSS Advanced
Tensorflow
Numpy
Pandas

Programming
C Advanced
Matlab Excellent
SQL Advanced

BI Tools
AWS S3, **Looker, docker, Airflow Redshift, Snowflake**

Microsoft Office
Word Excellent
Excel Excellent
PowerPoint Excellent

Optimization Solvers
FICO XPRESS Excellent
Gurobi Excellent

Languages
English Fluent
German B1
Chinese Native

Work & Project Experience

01/2020 - Present · **Junior Data engineer**
Raisin, Berlin, Germany
• Develop and optimize data pipelines and the ETL process using Python, Airflow, docker, Amazon Redshift and snowflake
• Debug upstream problems with data exchanges with other teams
• Extracting data from various 3rd party tools and APIs
• Built machine Learning pipeline in customer segmentation and data modelling using SQL.
• Take responsibility for small pipelines and interact with the corresponding team

09/2018 - 09/2019 · **Working Student in Accounting**
Honssan GmbH., Munich, Germany
• Support the Accounting Manager on month end and year end closings.
• Collect, review and archive invoice.
• Data analysis using modelling techniques like Logistic regression, K-nearest Neighbor (KNN) to compare the accuracy and error rate of the output.

10/2018 - 11/2018 · **Teaching Assistant for precourse Foundations in Mathematics**
Technische Universität München, Munich, Germany
• Tutored classes for the precourse of Bachelor Foundations in mathematics

04/2019 - 07/2019 · **Case Study of Discrete Optimization (in cooperation with AUDI)**
AUDI, Ingolstadt, Germany & Technische Universität München, Munich, Germany
Topic: Optimization of Tow Trains' Routes in Production Line
• Developed a mathematical model that optimize the logistics of car production.
• Used optimization models: Traveling Salesman Problem (TSP), Bin Packing and Set Partitioning.
• Worked with Python and Gurobi solver.

12/2017 - 02/2018 · **Student Project in Deep Learning**
Technische Universität München, Munich, Germany
Topic: Disease Type Prediction
• Implemented and explored the performance of various Convolutional Neural Network (CNN) architectures on the task of aided diagnosis for chest X-rays.
• Used bayesian optimization to accelerate the training process.
• Implemented data augmentation for the highly unbalanced dataset.

Education

10/2015 - 04/2019 · **Master of Mathematics in Science and Engineering**
Technical University of Munich, Germany
Master's thesis: Cutting Plane Methods for the Prouhet-Tarry-Escott Problem.

09/2011 - 07/2015 · **Bachelor of Mathematics and Applied Mathematics**
Shijiazhuang University of Economics, Shijiazhuang, China
Bachelor's thesis: Mathematical Model of Water Quality Assessment.