At the Chair of Logistics and Supply Chain Management of TUM School of Management we are looking for an interested and qualified student to conduct his/her

**Master thesis**

on the topic

**Sentiment Analysis for Shipping Freight Market**

The global shipping industry is significantly impacted by various events occurring around the world. An event in one region can affect most shipping operations in surrounding areas. While machine learning methods effectively learn from historical data, their capability to capture recent events and their impact on the freight market is limited. In this thesis, the student will explore the influence of various events and financial decisions reported in several comprehensive shipping news sources using sentiment analysis and natural language processing. The study aims to analyze the effectiveness of news in describing current market conditions, forecasting future market trends, and helping in hedging decisions.

**Key project tasks:**

- Literature review on relevant fields of study
- Sentiment analysis and implementation of NLP and forecasting algorithms
- Systematic comparison of models using and not using news
- Analysis of results and implications

**Requirements:**

The thesis is for students of the Master in Management and Technology with a focus on Operations and Supply Chain Management. The ability to work independently as well as analytical skills are required. Experience with Python & R is a plus.

**Begin:** as soon as possible

**Supervisor:** Burakhan Sel

**Application:** Email with curriculum vitae and transcript of records to logtheses.log@mgt.tum.de