

Invitation to the Oral Examination – Department CS

For the occasion of his/her examination for a Doctoral Degree,

Anum Afzal

will present his/her dissertation entitled/on

Benchmarking, Improving, and Predicting Performance Under Domain Shift in Large Language Models

on **30 April 2026** at **13:00 h**

Attendance to the presentation is open to the public. The presentation will be in English.

The candidate, all members of the Examination Committee, and authorized examiners of the TUM School of CIT are invited to the presentation and subsequent oral examination.

The presentation and subsequent examination will take place in room **02.09.014, Boltzmannstr. 3, 2.OG**

And online via Teams

Link: [Doctoral Examination Anum Afzal | Teilnehmen an Besprechung in Teams | Microsoft Teams](#)

Examination committee:

Chair: **Prof. Dr. rer. nat. Georg Groh**

First Examiner: **Prof. Dr. rer. nat. Florian Matthes**

Second Examiner: **Prof. Dr. Alexander Fraser**

Munich/Garching, the **13th** of **April 2026**

Mailing list:

Members of the examination committee

Doctoral candidate

Abstract:

Domain Adaptation refers to the ability of Natural Language Processing models to perform reliably in previously unseen domains. However, Large Language Models frequently experience a performance drop when faced with domain shifts. Key research challenges include the Evaluation, Improvement, and Prediction of Domain Adaptation. This work tackles these challenges by introducing new and established metrics and utilizing efficient fine-tuning and forecasting methods for performance prediction.