The study investigates the potential and feasibility of the inclusion of machine learning and artificial intelligence methods in the assistance of the admission process of the department’s study degree programmes. A software tool shall be developed which incorporates the automated data extraction from admission forms into a database, the automated access to international university ranking data bases, and the A.I.-driven assistance for efficiency enhancement through e.g. image and text recognition.

The study comprises the following sub-tasks:

• Development of an executable script with user control interface in a major object-orientated programming language for automated data base generation of applicant data,
• Generation of dummy and training data based on realistic admission data sets,
• Automated and parameterized access to major international university ranking data bases,
• Inclusion of image and text recognition features,
• Enabling statistical data analysis
• Investigation of the usefulness of employing machine learning algorithms and quantifying their improvement effect.

The project is a collaboration of ILH and the office of the dean of studies in the department of electrical engineering and information technologies.

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