# Preface

During the course of our bachelor studies in computer science at ZHAW School of Engineering, various concepts and methods were introduced, and applied in diverse software projects – ranging from Java software applications to machine learning projects.

One of the domains, which intrigued us, were machine learning and data science. By going through the advertised bachelor theses, we came across a project proposed by Dr. Martin Frey – in cooperation with the industry partner, Prognolite – which met our interests. The notion to work with an industry partner on a machine learning and data science project was the determining factor for our decision on conducting this research.

First and foremost, we would like to express our sincere gratitude to our supervisors Dr. Martin Frey and Dr. Reto Bürgin, for giving us the opportunity to conduct this research, for their valuable guidance and patience throughout the entire project, and for their profound knowledge and insights in the field of statistical data analysis. They have taught us the tools and methods to perform and present research of this kind.

Beside our supervisors, we would like to thank Marco Wirthlin from Prognolite, for his participation, assistance, and for his availability. He provided us with the data required for the research. We are very grateful for his support, without which the completion of this thesis would not have been possible.

Last, but not least, we would like to thank our families and friends for providing us with love and support, and for accompanying us throughout our journeys so far.