











<p>MOTIVATION </p> <p>The target group of my project is floorball fans. Possibly also coaches and players itself.</p> <p>The goal is to better understand the possibilities of data-analysis in floorball.</p>	<p>DATA COLLECTION </p> <p>Data is from www.fliiga.com. Data is obtained by using web scraping.</p>	<p>PREPROCESSING </p> <p>The goal of the preprocessing pipeline is to make data tidy for analysis and visualization. This includes formatting, naming, uniting.</p>	<p>EXPLORATORY DATA ANALYSIS (EDA) </p> <p>Look at the data!</p> <p>First, some calculation is needed, for example average, mean and mode.</p> <p>The distributions for shooting percentages and shots per game are probably useful too.</p>	<p>VISUALIZATIONS </p> <p>The visualizations are related to shooting percentages and number of shots. Some re-classifications is probably needed. Histograms for top players are the goal.</p>
<p>LEARNING TASK </p> <p>(focus on problem definition)</p> <p>The main idea is to apply Bayes statistics to estimate "real" shooting percentages. This is relevant when data is scarce.</p> <p>The secondary goal is to use data to predict the best goal scorers.</p>	<p>LEARNING APPROACH </p> <p>(focus on solution implementation)</p> <p>We use "Empirical Bayes" to evaluate general shooting percentages in the first phase. The result after combining Beta (prior) and Binomial (likelihood) is Beta (posterior) because of the conjugate prior attribute.</p> <p>For the predicting we use the Binomial model.</p>		<p>COMMUNICATION OF RESULTS </p> <p>I will use a blog post or website for communication.</p>	<p>DATA PRIVACY AND ETHICAL CONSIDERATIONS </p> <p>(if applicable)</p> <p>There is no need for anonymization nor pseudonymization.</p> <p>All Data is public without personal information.</p>
	<p>ADDED VALUE </p> <p>The added knowledge from floorball statistics.</p>	<p>LEGEND</p> <p>WEEK 1: Data collection/preprocessing</p> <p>WEEK 2: EDA & visualizations</p> <p>WEEKS 3-4: Predicting & visualizations</p>		