

# **SportsGNN**

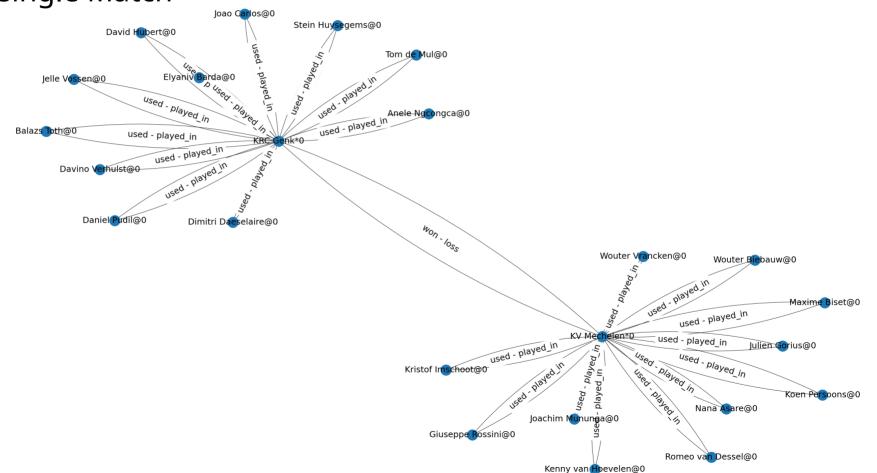
A Sports Match Outcome Prediction Deep Graph Network

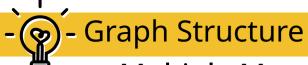
X



# - Graph Structure A single Match







#### Multiple Matches

X

Consider the following Data-frame, Lets say we want to predict the outcome of the 4'th row. We create a Heterogeneous Spatiotemporal graph as shown in the next page

	league	season	week	home_team	away_team	result	home_lineup	away_lineup
0	Belgium Jupiler League	2008/2009	24	KV Mechelen	KRC Genk	win	[Wouter Biebauw, Kenny van Hoevelen, Nana Asar	[Davino Verhulst, Joao Carlos, Dimitri Daesela
1	Belgium Jupiler League	2008/2009	25	KSV Cercle Brugge	Club Brugge KV	loss	[Bram Verbist, Denis Viane, Anthony Portier, F	[Stijn Stijnen, Michael Klukowski, Antolin Alc
2	Belgium Jupiler League	2008/2009	25	RSC Anderlecht	SV Zulte- Waregem	win	[Davy Schollen, Olivier Deschacht, Arnold Krui	[Sammy Bossuyt, Karel D'Haene, Stijn Minne, Ba
3	Belgium Jupiler League	2008/2009	26	KV Mechelen	RSC Anderlecht	win	[Wouter Biebauw, Kenny van Hoevelen, Nana Asar	[Davy Schollen, Olivier Deschacht, Roland Juha

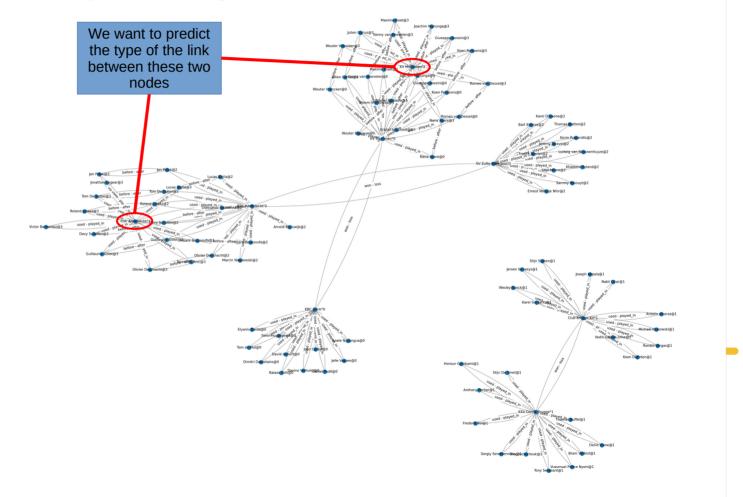




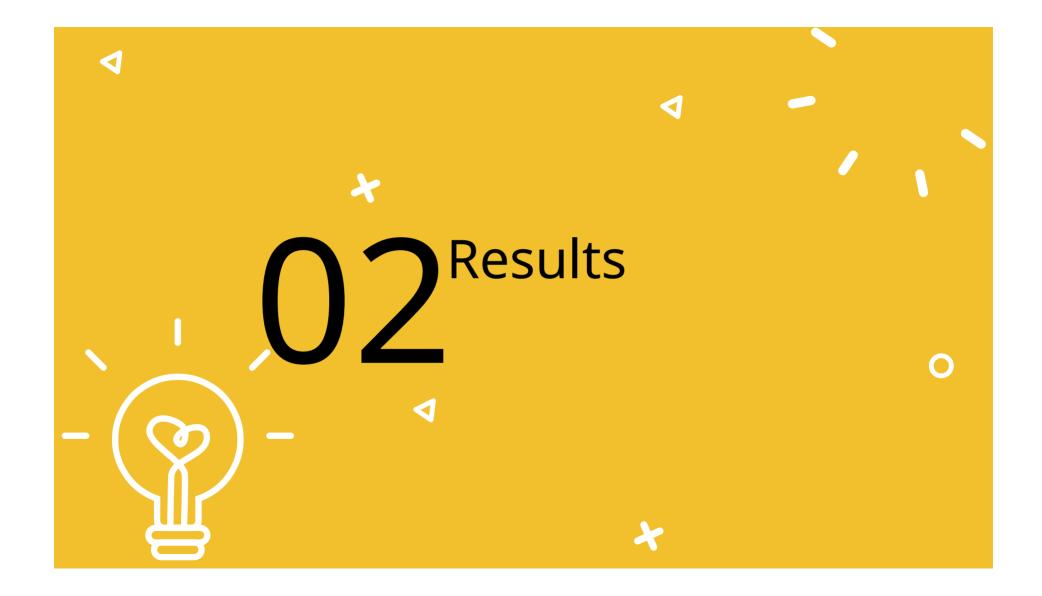
## - Graph Structure

#### Multiple Matches (try zooming)

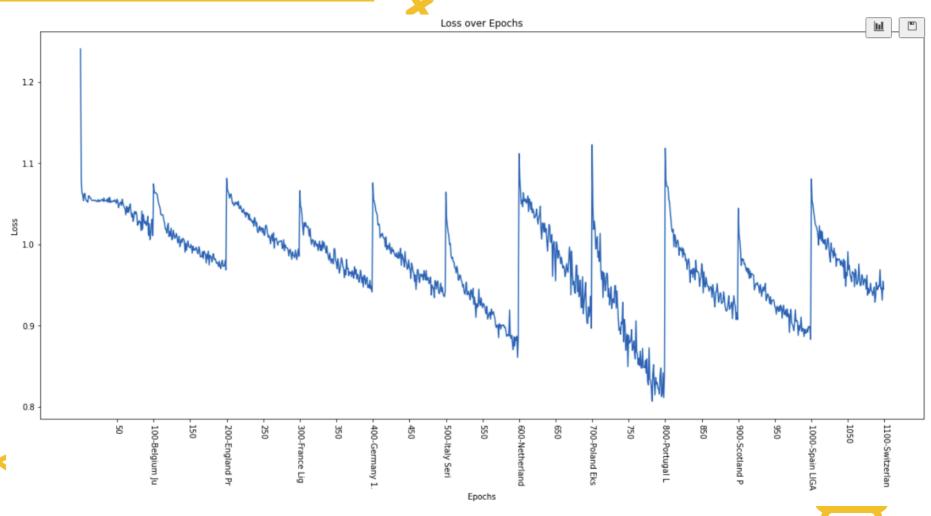
The exact method of our work will be explained orally, as its explanation in this presentation can cause misunderstandings and vagueness.



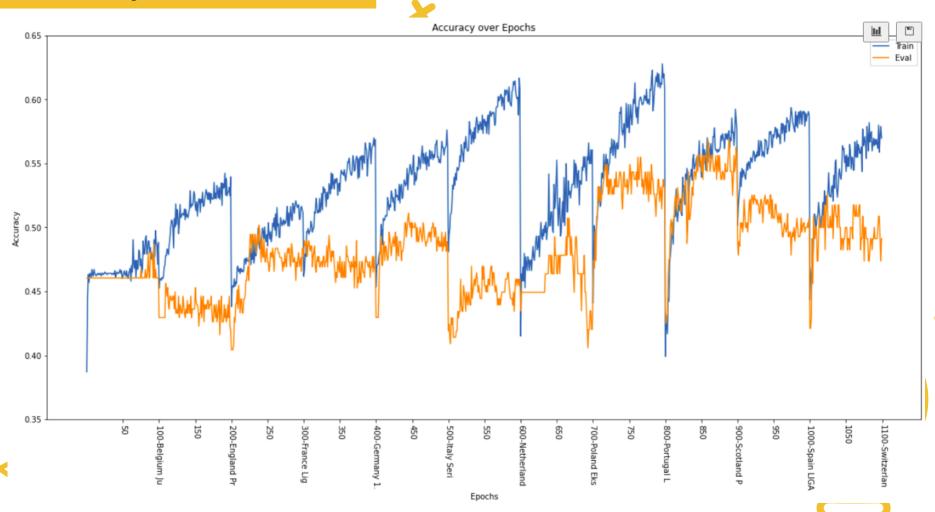












## - Baseline Comparison

We have exceeded the baseline in almost every league, but this model is not perfect and it certainly a work in progress.

