

1. Create view `chao_draft.lmt_testYears_CSS_null_norm_prob_for_points` by adding numeric columns for position_L/R/D/C and country_USA/CAN/EURO.

2. Calculate attributes strength against average with equation $\sum w_i (x_i - \bar{x})$ for each player in two cohorts(players drafted in 2001/2 ; players drafted in 2007/8). Code can be found here: https://github.com/sfu-cl-lab/Yeti-Thesis-Project/blob/master/Decision_Trees/LMT/calculate_points_strength_against_avg.py

3. Save the results in table `chao_draft.lmt_testYears_CSS_null_norm_prob_for_points`. And the strongest point and weakest point is summarized as following:

| 2001 & 2002 | Strongest Point (Weakest Player) | Weakest Point (Strongest Player) |
|------------------------|---|---|
| LeafNode 1 | id: 58597 PlayerName: Igor Valeyev value: 1.75168074781 | id: 13243 PlayerName: Jake Riddle, value: -2.58681834167 |
| LeafNode 2 | id: 18670 PlayerName: Pierre-Luc Emond value: 2.45731999708 | id: 882 PlayerName: Simon Skoog, value: -2.40004324638 |
| LeafNode 3 | id: 8469469 PlayerName: R.J. Umberger value: 3.11652862375 | id: 8469508 PlayerName: Jay McClement value: -2.18420320554 |
| LeafNode 4 | id: 9563 PlayerName: Yuri Trubachyov value: 2.62492018686 | id: 12233 PlayerName: Dmitri Kazionov value: -2.38239233531 |
| LeafNode 5 | id: 7523 PlayerName: Viktor Ujcik value: 1.78920151806 | id: 3195 PlayerName: Joonas Vihko, value: -2.34878916407 |

| 2007 & 2008 | Strongest Point (Weakest Player) | Weakest Point (Strongest Player) |
|------------------------|--|--|
| LeafNode 1 | id: 8474563 PlayerName: Drew Doughty value: 2.34215133661 | id: 8474569 PlayerName: Colin Wilson value: -1.59960831342 |
| LeafNode 2 | id: 8474597 PlayerName: Cody Goloubef value: 2.24758191393 | id: 12535 PlayerName: Travis Erstad value: -1.72712719356 |

| | | |
|------------|---|--|
| LeafNode 3 | id: 8474657 PlayerName: Jamie Arniel value: 2.45381818102 | id: 8474098 PlayerName: Colton Sceviour value: -1.64236648773 |
| LeafNode 4 | id: 8474024 PlayerName: Jim O'Brien value: 2.42440049563 | id: 8474727 PlayerName: Ben Smith value: -3.02158559559 |
| LeafNode 5 | id: 8474584 PlayerName: Michael Del Zotto value: 2.8310216081 | id: 11465 PlayerName: Vinny Saponari value: -1.93872865148 |
| LeafNode 6 | id: 9347 PlayerName: Justin Azevedo value: -0.183531860288 | id: 8474146 PlayerName: Spencer Machacek value: -2.10624733328 |

*** Some strong players in strong clusters ranked by our model didn't play or only played few games in NHL. Because they never sign a contract with NHL but play in other competitive leagues like KHL and some European leagues. These players are summarized as following.

| Name | NHL_GP_greater_than_0 | career league |
|-----------------|-----------------------|---------------|
| Joonas Vihko | no | SM-liiga |
| Dmitri Kazionov | no | KHL |