# Finding the factors that directly affect time for passion

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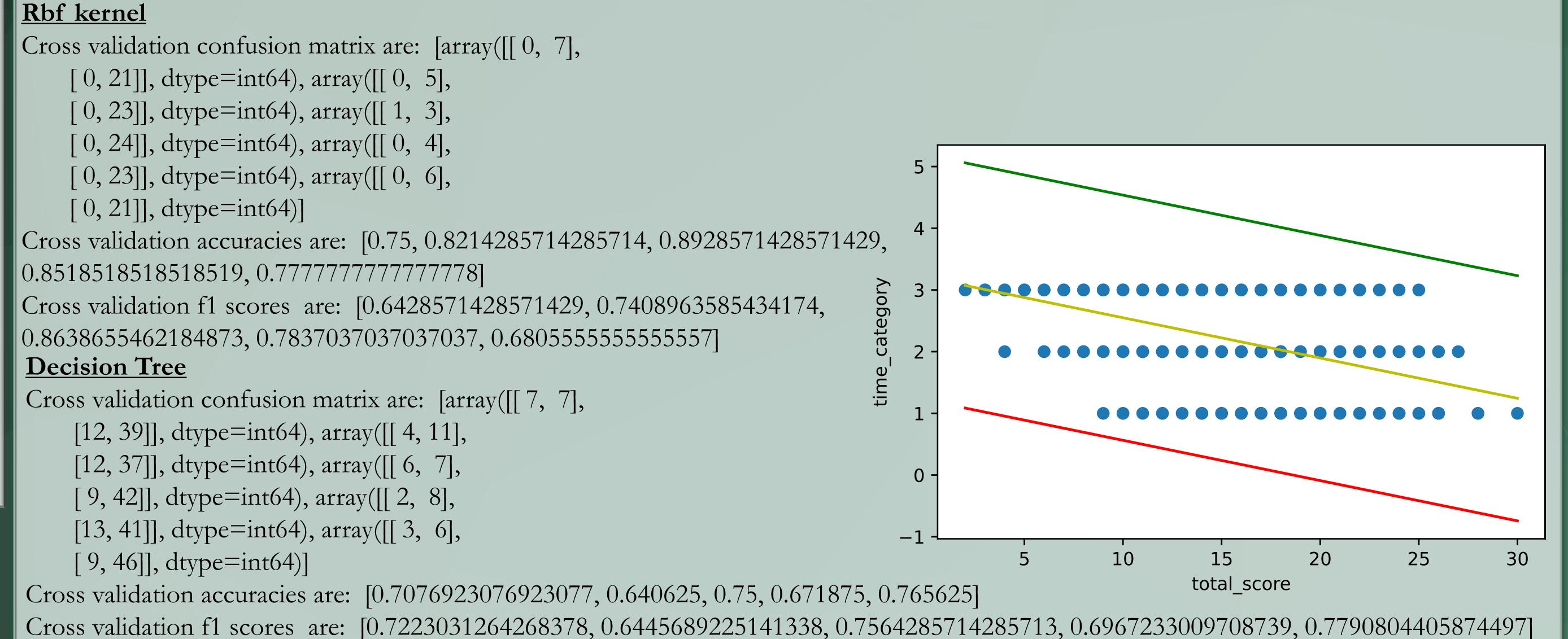
# NORTHWEST MISSOURI STATE UNIVERSITY

Machine Learning Final Project

### Introduction

# Exploration of the Data

- This project is trying to see the factors that are related to free time for passion.
- There are several features such as "flow", "social network" and "live vision" being used to test the correlation with the time factor.



### Data

- FLOW: mental state, in which you are fully immersed in performing an activity.
- SOCIAL NETWORK: close family and friends ready to provide you with a long-term unconditional support.
- LIVE VISION: vision board, detailed in a personal journal or openly discussed with your spouse or close friends.
- TIME FOR PASSION: Daily hours spent doing what you are passionate
- SOURCE: <a href="http://www.authentic-happiness.com/your-life-satisfaction-score">http://www.authentic-happiness.com/your-life-satisfaction-score</a>
- "FLOW", "SOCIIAL NETWORK" "LIVE VISION" AND "TIME FOR PASSION" are what I found to be correlated although the correlation are not strong.
- No data-cleaning is needed as the survey requires all fields to be filled.
- However, some datatypes needed to be changed because they do not belong to integer (int64) so comparison between numbers cannot be done.

# Future Directions, Challenges and solutions

- More features can be added (CORE\_CIRCLE, SUPPORTING\_OTHERS, PERSONAL\_AWARDS and ACHIEVEMENT)
- Newly added features tend to have weaker correlations which may drop the metrics score but we can try to limit the range (age) so that non-adults will not be affecting the prediction.
- Overall, human possess infinite possibilities so there will always be exceptions that is hard to tell and predict.

### What I found

- It can be understood that you need to get into the flow if you are doing something you are passionate about, and a wellplanned life (life vision) helps to fulfilling your passion
- I used several kernels and RBF is the best among all. Decision Tree is suspected to be overfitting.
- The graph do not behave linearly or in polynomial shape as there are always exceptions/outliers among humans that makes prediction flawed.

Poster Repository

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