**Depression and suicide psychology**

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# Introduction

## Background

Suicide is a phenomenon that affects all regions of the world, in fact, 75% of suicides occurred in low-and middle- income countries in 2012. Suicide accounted for 1.4% of death worldwide. Mental disorders (depression, personality disorders, alcohol dependence or schizophrenia…), certain physical illnesses such as neurological disorders, cancer and HIV infections are risk factor for suicide.

More than 800,000 people per year die by committing suicide. Each year, millions of people are therefore faced with cruel losses due to suicide. These deaths can occur at any age in life. In the optic of help to dimine this quantity of suicides, Dr Christine Dupre would like to open a new psychologist’s office. She has the idea of settling somewhere where statistically there is the highest level of suicides in the world.

## Problem

Data will use to determinate the country with the highest level of suicides, features will be determinate. In this project we will try to find an optimal location for the clinic of Dr Christine Dupre, we will try to detect locations that are away from traffic noise, like she asked it.

## Interest

Certainly all psychologists wanting to determine a target clientele, or wishing to move where they will have a better market share. And OMS whom want to find more data about suicides for have better prevention ideas against suicide.

# Data acquisition and cleaning

## Data sources

Population died by suicide, their age, their gender, the country where they was can be found in this Kaggle dataset : “lyen an”. I do additional research on Google to complete the best location idea with foursquare.

## Data cleaning

Worldwide suicides from 1985 to 2012 have all information that I want, no web scrapping was needed. I decide to analyze values from all year and based my conclusion on the evolution of these values to 2012, for example Russia was the country with the highest rate of suicide but in 2000-2012 United Stated replace it. I separate the feature of this analyze by making a groupby, I zoom every values of my dataset to establish the relation between every one with the total suicide. I do different graph to show the difference level of suicide for each of them.

# Exploratory Data

## Relation between suicide and country

ejms

## Relation between suicide and sexe

## Relation between suicide and generation

## Relation between suicide and age

# Solution

The foursquare …

# Conclusion

We can conclude

**Conclusions**

In this study, I analyzed the relationship between NBA players’ improvement/decline and their performance and biographic data. I identified age, win share, minutes/games played, improvement last season among the most important features that affect a player’s improvement next season. I built both regression models and classification models to predict whether and how much a player would improve/decline. These models can be very useful in helping NBA team management in a number of ways. For example, it could help identify players to acquire, estimate the size of the contract to offer players, plan for performance changes of players already on the team, etc.

Models in this study mainly focused on individual features. However, interactions with teammates, coaches, might also contribute to a player’s performance. For example, if a player had a new teammate who is a superstar at the same position, his performance is likely to suffer because of competition. These interactions data are obviously more difficult to extract and quantify, but if optimized, could bring significant improvements to the models.