

# Machine Learning Projekt: Netflix

## Einleitung

## Hauptteil

### Projektmanagement

#### Projektziele

#### Wirtschaftsinformatische Aspekte

### Datenanalyse

#### Daten Exploration

```
dim(netflix_titles)
```

```
## [1] 6234  12
```

```
head(netflix_titles)
```

```
##   show_id   type                                     title
## 1 81145628  Movie Norm of the North: King Sized Adventure
## 2 80117401  Movie                               Jandino: Whatever it Takes
## 3 70234439 TV Show                               Transformers Prime
## 4 80058654 TV Show       Transformers: Robots in Disguise
## 5 80125979  Movie                               #realityhigh
## 6 80163890 TV Show                               Apaches
```

```
##                                     director
## 1 Richard Finn, Tim Maltby
## 2                                     <NA>
## 3                                     <NA>
## 4                                     <NA>
## 5          Fernando Lebrija
## 6                                     <NA>
```

```
##
## 1          Alan Marriott, Andrew Toth, Brian Dobson, Cole Howard, Jenn
## 2
## 3 Peter Cullen, Sumalee Montano, Frank Welker, Jeffrey Combs, Kevin Michael Richardson, Tania Gunadi
## 4          Will Friedle, Darren Criss, Constance Z
## 5          Nesta Cooper, Kate Walsh, John Michael Higgins, Keith Powers, Alicia Sanz, Jake Borelli,
## 6
```

```
##                                     country      date_added release_year
## 1 United States, India, South Korea, China September 9, 2019      2019
## 2          United Kingdom September 9, 2016      2016
## 3          United States September 8, 2018      2013
## 4          United States September 8, 2018      2016
## 5          United States September 8, 2017      2017
## 6          Spain September 8, 2017      2016
```

```
##      rating duration
## 1      TV-PG   90 min
## 2      TV-MA   94 min
## 3 TV-Y7-FV 1 Season
## 4      TV-Y7 1 Season
## 5      TV-14   99 min
## 6      TV-MA 1 Season
##
##                                     listed_in
## 1                                Children & Family Movies, Comedies
## 2                                Stand-Up Comedy
## 3                                Kids' TV
## 4                                Kids' TV
## 5                                Comedies
## 6 Crime TV Shows, International TV Shows, Spanish-Language TV Shows
##
## 1      Before planning an awesome wedding for his grandfather, a polar bear king must take back a
## 2      Jandino Asporaat riffs on the challenges of raising kids and serenades the audience with a rous
## 3      With the help of three human allies, the Autobots once again protect Earth from the onslau
## 4      When a prison ship crash unleashes hundreds of Decepticons on Earth, Bumblebe
## 5 When nerdy high schooler Dani finally attracts the interest of her longtime crush, she lands in the
## 6      A young journalist is forced into a life of crime to save his father and family in this
```

```
tail(netflix_titles)
```

```
##      show_id   type                                     title director
## 6229 80159925 TV Show                                Kikoriki      <NA>
## 6230 80000063 TV Show                                Red vs. Blue      <NA>
## 6231 70286564 TV Show                                Maron              <NA>
## 6232 80116008  Movie      Little Baby Bum: Nursery Rhyme Friends      <NA>
## 6233 70281022 TV Show A Young Doctor's Notebook and Other Stories      <NA>
## 6234 70153404 TV Show                                Friends            <NA>
##
## 6229
## 6230 Burnie Burns, Jason Saldaña, Gustavo Sorola, Geoff Lazer Ramsey, Joel Heyman, Matt Hullum, Dan C
## 6231                                Marc Maron, J
## 6232
## 6233      Daniel Radcliffe, Jon Hamm, Adam Godley, Christopher Godwin, Rosie Cavaliero, Vic
## 6234                                Jennifer Aniston, Courteney Cox, Lisa L
##
##      country date_added release_year rating   duration
## 6229      <NA>      <NA>         2010    TV-Y  2 Seasons
## 6230 United States      <NA>         2015     NR 13 Seasons
## 6231 United States      <NA>         2016   TV-MA  4 Seasons
## 6232      <NA>      <NA>         2016    <NA>    60 min
## 6233 United Kingdom      <NA>         2013   TV-MA  2 Seasons
## 6234 United States      <NA>         2003   TV-14 10 Seasons
##
##                                     listed_in
## 6229                                Kids' TV
## 6230 TV Action & Adventure, TV Comedies, TV Sci-Fi & Fantasy
## 6231                                TV Comedies
## 6232                                Movies
## 6233      British TV Shows, TV Comedies, TV Dramas
## 6234      Classic & Cult TV, TV Comedies
##
## 6229      A wacky rabbit and his gang of animal pals have fun solving problems, sharing stories and e
## 6230      This parody of first-person shooter games, military life and science-fiction films centers on
```

```
## 6231 Marc Maron stars as Marc Maron, who interviews fellow comedians for his popular podcast, only t
## 6232     Nursery rhymes and original music for children accompanied by bright, playful animation eng
## 6233     Set during the Russian Revolution, this comic miniseries is based on a doctor's memories of
## 6234     This hit sitcom follows the merry misadventures of six 20-something pals as they navigate
```

```
summary(netflix_titles)
```

```
##      show_id          type          title          director
##  Min.   : 247747   Length:6234   Length:6234   Length:6234
##  1st Qu.:80035802  Class :character  Class :character  Class :character
##  Median :80163367  Mode  :character  Mode  :character  Mode  :character
##  Mean   :76703679
##  3rd Qu.:80244889
##  Max.   :81235729
##      cast          country      date_added      release_year
##  Length:6234      Length:6234   Length:6234   Min.   :1925
##  Class :character  Class :character  Class :character  1st Qu.:2013
##  Mode  :character  Mode  :character  Mode  :character  Median :2016
##                                     Mean   :2013
##                                     3rd Qu.:2018
##                                     Max.   :2020
##      rating      duration      listed_in      description
##  Length:6234      Length:6234   Length:6234   Length:6234
##  Class :character  Class :character  Class :character  Class :character
##  Mode  :character  Mode  :character  Mode  :character  Mode  :character
##
##
##
```

## Machine Learning Algorithmen

### Ergebnisse

### Fazit