

# Project 2c

---

# New Variable

---

```
data$begin_date<-as.POSIXct(data$begin_date, origin="1970-01-01")
data$begin_date<-as.Date(as.POSIXct(data$begin_date, origin="1970-01-01"))

data$end_date<-as.POSIXct(data$end_date, origin="1970-01-01")
data$end_date<-as.Date(as.POSIXct(data$end_date, origin="1970-01-01"))

data$time_active<-data$end_date-data$begin_date
data$time_active<-as.numeric(data$time_active)+1

data$weighted_influence<-(data$Num_Forks+data$Num_Watchers)/data$time_active
```

# Log \*most of\* the Data

---

```
data2$Influential<-ifelse(data2$weighted_influence>0,1,0)

loggy<-function(x){
  return(log(x+1))}

log(5)==loggy(4)

data2_log<-apply(data2[,c(5:11)],1:2,loggy)
```

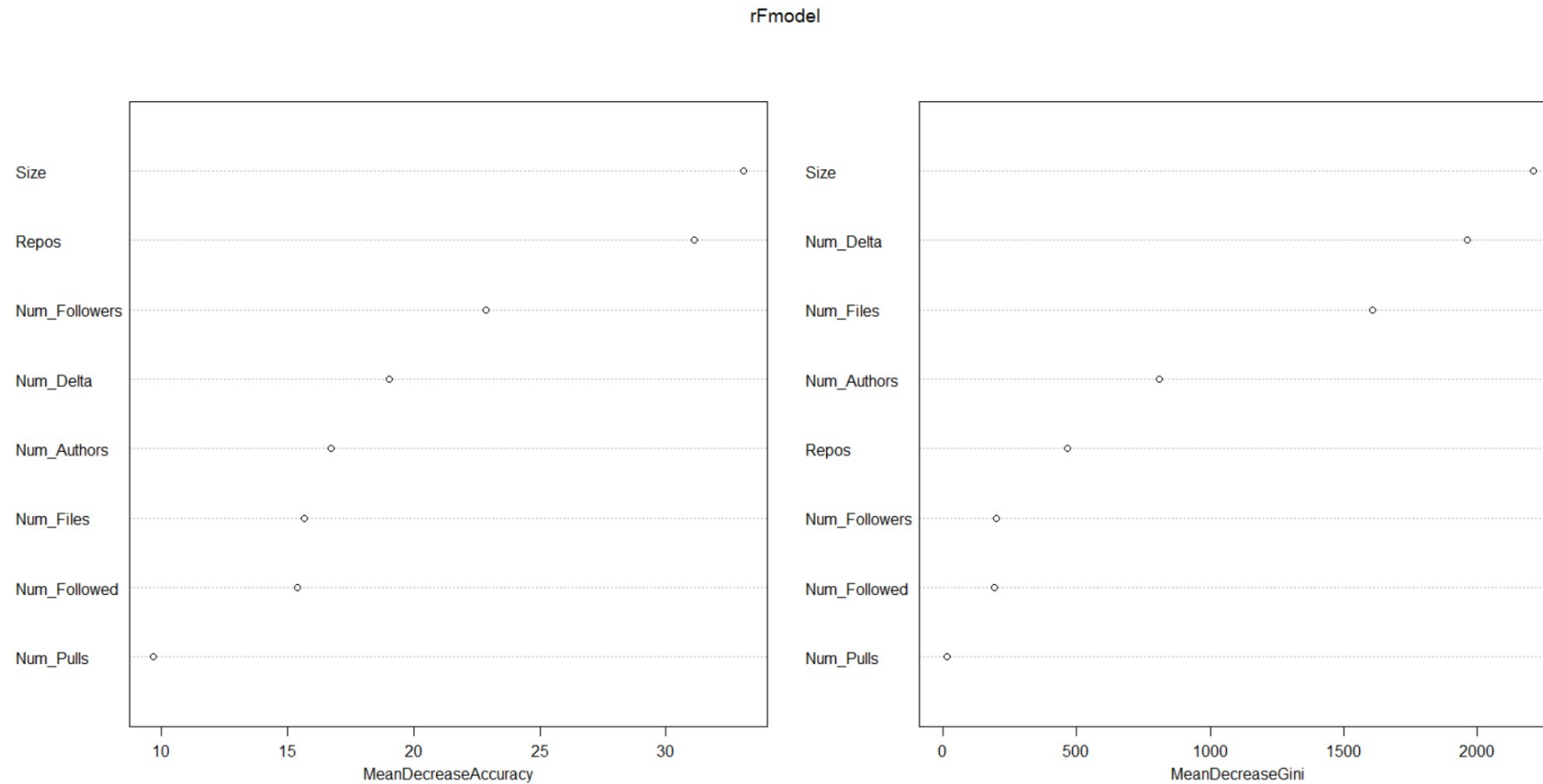
# All Data -> User Level

---

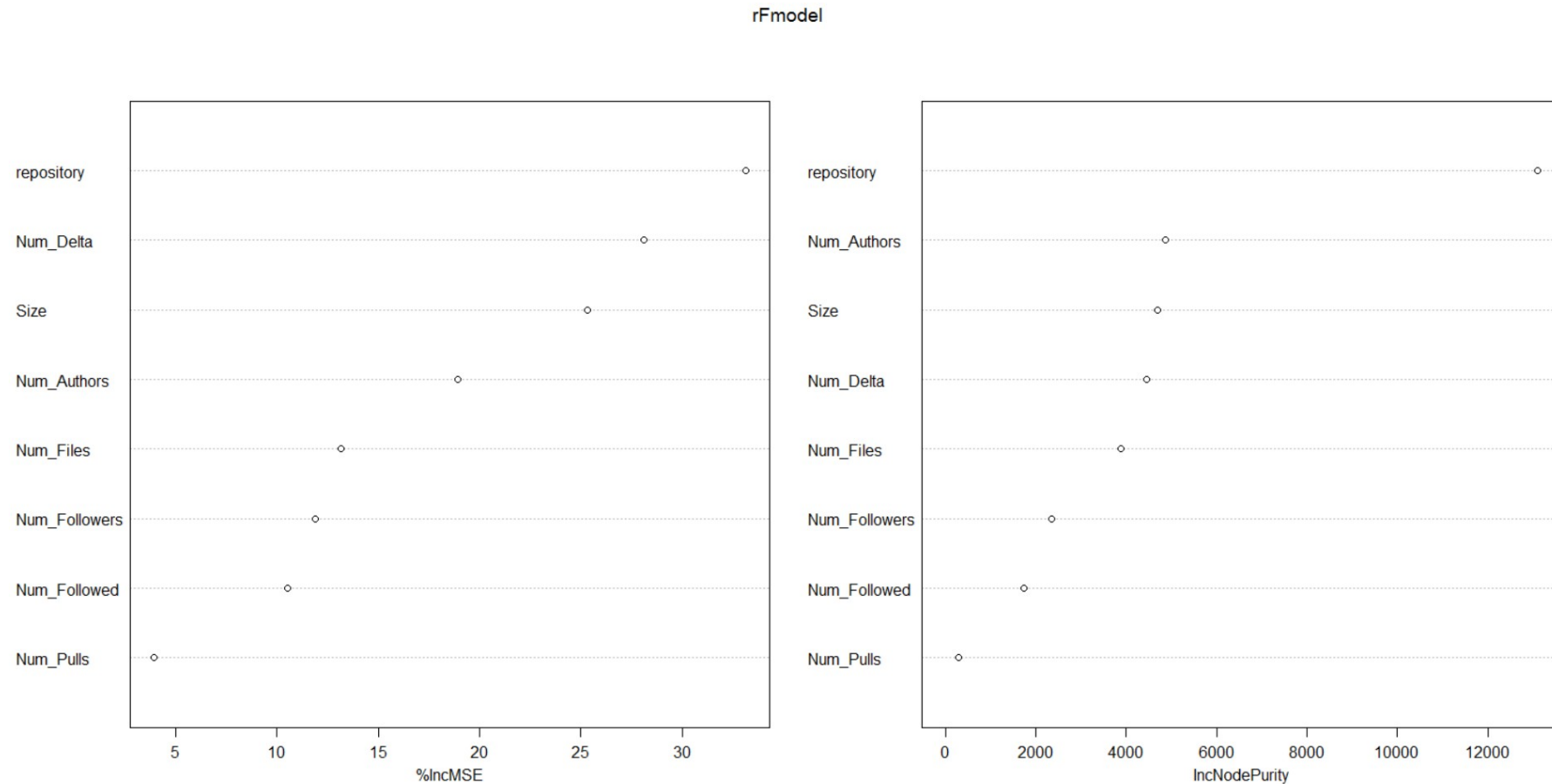
```
> cor(data2, use="all.obs", method="spearman")[,9:10]
```

	Influential	Weighted_Influence
Num_Pulls	0.02544837	0.05766943
Num_Delta	0.05579711	0.09792091
Num_Authors	0.02826603	0.19650359
Num_Files	0.08296552	0.11853912
Size	0.02926647	0.12256187
Num_Followers	0.07830495	0.11033813
Num_Followed	0.06402081	0.10694429
Repos	0.13909835	0.45031051
Influential	1.00000000	0.41987362
Weighted_Influence	0.41987362	1.00000000

# Random Forest



# Random Forest



Classification Tree for Influence

