PS7 Finley

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1 Summary Table/Code

install.packages("mice") install.packages("modelsummary") library(mice) library(modelsummary)

wages ¡- read.csv("wages.csv")

Drop observations where either hgc or tenure are missing $\text{wages}_clean < -na.omit(wages[, c("logwage","hgc","tenure","age","married","college")])Asdfdf_total < -data.frame(wages_clean)Fitalinearregressionmodelmodel < -lm(logwage\ hgc + tenure + age + married + college, data = wages_clean)$

Summary table modelsummary(model) wages missing at .639 intercept log-wage variable likely to be MAR

Question 7

regression using complete cases $\text{df}_final < -df_total$

mean imputation $\text{df}_mean < -df_totallogwage_mean < -mean(df_meanlogwage)$

imputate missing log wages $\text{df}_total < -df_finaldf_totallogwage[is.na(\text{df}_mean)] < -predict(df_final, newdata = df)$

mice package $\text{imp}_data < -mice(df_final, m = 4, method = "pmm", seed = 123456)mice < -with(imp_data, lm(logwage\ hgc + college + age + married + tenure))$

Final model summary table model2 ¡- list("Final"=df_final,"$Mean" = df_mean$,"$Predicted" = df_total$,"$Mice" = df_total)modelsummary(model2)$

2 Project Update

Overall, I have not made too much headway on the project. I have ideas and pakcages that I want to implement in my financial analysis like "fArma" and "RMetrics". I would like to use these to analzye time series data or potentially look the change of the fixed-income securities market over the past year. I might want to look into "FREDR" as well for helping and interpreting some of this data. Essentially, I have looked into numerous sources but have not yet come up with something complete for the project yet. This will change in the next couple weeks as I will put more time into this project.