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%Reference and Collaborated with Ritwik Srivastava
data = readtable("Assignment 4.xlsx");
% Computing continuously compounded returns and log dividend-price ratio:
prices = data.P real;
dividends = data.D real;
price prev = data.P_real(1:end-1);
Rt = ((prices(2:end) + dividends(2:end))./price prev) - 1;
ret = log(1 + Rt);
DPt = dividends(1:end-1)./price prev;
dpt = log(DPt);
% T-stat for Horizon-3 (ta 3)
arr = [];
arr(end+1) = Rt(2)+Rt(3)+Rt(4);
for i=3:68
   temp rt = Rt(i)+Rt(i+1)+Rt(i+2);
  arr(end+1) = temp rt;
end
arr = reshape(arr, [67,1]);
n = length(Rt);
res 3 = ols(arr(1:end), [ones(n-3,1) dpt(1:end-3)]);
ta 3 = res 3.tstat(2)
beta 3 = res 3.beta(2)
% T-stat for Horizon-7 (ta 7)
arr = [];
arr(end+1) = Rt(2) + Rt(3) + Rt(4) + Rt(5) + Rt(6) + Rt(7) + Rt(8);
for i=3:64
   temp rt = Rt(i)+Rt(i+1)+Rt(i+2)+Rt(i+3)+Rt(i+4)+Rt(i+5)+Rt(i+6);
   arr(end+1) = temp rt;
end
arr = reshape(arr, [63,1]);
n = length(Rt);
res 7 = ols(arr(1:end), [ones(n-7,1) dpt(1:end-7)]);
ta 7 = res 7.tstat(2)
beta 7 = res 7.beta(2)
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