

1. Us employment rate ~60%. So, udacity’s is less without correction
2. Simple regression on nnano1 shows insignificant negative correlation
3. Reg \_employed nnano1 nnano2 neg linear, positive marginal! “noob effect” but not expected to persist as n -> infinite (permanent increasing returns is theoretically problematic)
4. Reg \_employed nnano1 nnano2 nnano3 has more important, positive nnano3 compared to nnano2
5. Age matters; and I’m interested in alt creds as a step to the first job; so what about including age?
   1. Age highly significant and nnano1, 2, 3 pattern is robust, even better p!
   2. Including linear interaction flips the negative marginal effect, but reduces factor significance; nnano1, 2, 3 is now strictly positive but interaction is negative. What does this mean for young folks? It means getting a nanodegree is a worse idea as you age. This confirms intuition. But wait, couldn’t this effect have some marginal caveat? So let’s introduce quadratic and cubic effects to the interaction.
   3. Yes, now all interactions are highly significant. Now we see a clear but complicated picture. Getting nanodegrees as you age is linearly beneficial, marginally problematic over an intermediate region, and somewhat beneficial at the extremes. The cubic benefit might seem negligible, but note that it is roughly twice the cubic negative effect of age. If being super old per se is cubically bad, being super old and super education is cubically good to the exact same degree.
   4. The important part here is that the noob effect remains; although it’s expressed in quadratic and cubic variables. A single nanodegree doesn’t seem to help much, but several do help. This noob effect seems like ‘knowing just enough to be dangerous’ and it may signal justification for the imposter syndrome experienced by many professionals who switch to a career in programming utilizing self-teaching means or alternative education. But it seems to also support the notion that some who push through can achieve high skill.
   5. The pattern is robust to language effects; interestingly, speaking English has a negative effect…?