

Final Results for Regression Models

Model	J train	J validation	J Test	R2 Test
Linear (n=11)	359164	458620	357622	0.152935
Quadratic (n=22)	232558	300062	379836	0.061932
Cubic (n=33)	212076	201788	246200	-0.117580

Final W (weights) for linear (n=11) training set:	Final W (weights) for quadratic (n=22) training set:	Final W (weights) for cubic (n=33) training set:
x0: 1558.1565759452642 x1: 558.3326040151551 x2: 2072.672231927536 x3: -57.196850101590826 x4: -720.9401432127361 x5: 62.60279655479553 x6: 17.994652374765792 x7: -627.9394830386063 x8: 2002.7584080886445 x9: 3328.0895588603016 x10: -644.4322547712945 x11: -2910.015563242807	x0: -4416.306986320531 x1: 1048.5061721801176 x2: -112.18985918859835 x3: 989.2785036551941 x4: 989.2785038773145 x5: 193.35391541419085 x6: -17.41468758432893 x7: -51.967379398003686 x8: -51.967379358567996 x9: 126.03809908032417 x10: -10.977079044896527 x11: -34.763590228161775 x12: -34.7635902352049 x13: 1156.4612937067577 x14: -488.4429999615677 x15: 42179.36409646273 x16: -30654.15556421876 x17: -25464.40926757455 x18: 17215.888242572546 x19: 5014.8490949664265 x20: -5654.550200023688 x21: 1959.7443404733203 x22: -14595.141171239316	x0: 913.9543865714222 x1: 959.3705521672964 x2: -125.79328193515539 x3: 4.4640929638408124 x4: 642.5279877291978 x5: 642.5472293265921 x6: 642.5419009346006 x7: 363.4855121630244 x8: -64.12316887354245 x9: 3.064182069738308 x10: -160.76299635285977 x11: -160.76422576591722 x12: -160.76399414308253 x13: 118.2399894639384 x14: -18.16516704665264 x15: 1.9887220487416926 x16: 50.945779177796794 x17: 50.94579015605268 x18: 50.945790115976706 x19: 497.12449252139777 x20: -20.28842258360237 x21: -106.31253331899643 x22: -11442.683738708496 x23: 61210.6277282238 x24: -55495.62842810154 x25: -7191.305538356304 x26: 8643.592270493507 x27: -1534.1144424676895 x28: 3040.514221115038 x29: -4661.990308262408 x30: 396.5682157892734 x31: -754.5043132412247 x32: -8111.20893734321 x33: 12.28631935500016

