best\_fit\_distribution(pJan2,bins=200)

Out[64]: ('pearson3', (2.640124824649426, 0.3202808592409373, 0.4095900995477765))

best\_fit\_distribution(pFeb2,bins=200)

Out[65]: ('chi2', (1.3703364389091646, 0.009999999999999998, 0.21945305241917112))

best\_fit\_distribution(pMar2,bins=200)

Out[66]: ('chi', (0.42634359150795664, 0.009999999999999998, 0.5885125201844035))

best\_fit\_distribution(pApr2,bins=200)

Out[68]:

('burr',

(3.7990599045941367,

0.10769670076961184,

0.009999999999999998,

0.5328094829221509))

best\_fit\_distribution(pMay2,bins=200)

Out[69]:

('fatiguelife',

(1.5262973864263456, 0.0011568916311846791, 0.09266892174499981))

best\_fit\_distribution(pJun2,bins=200)

Out[70]:

('recipinvgauss',

(62021.76789057031, 0.009999999962390593, 0.1820106965679592))

best\_fit\_distribution(pJul2,bins=200)

Out[71]: ('halfgennorm', (0.25339219007751, 0.01, 0.00018237764785662464))

best\_fit\_distribution(pAug2,bins=200)

Out[72]:

('betaprime',

(0.7582631665462607,

1.0367161723304366,

0.009999999999999998,

0.11980385570871105))

best\_fit\_distribution(pSep2,bins=200)

Out[73]:

('recipinvgauss',

(1639392.4039216368, 0.009999999999903204, 0.21341855246098274))

best\_fit\_distribution(pOct2,bins=200)

Out[74]:

('recipinvgauss',

(1758279.0136438757, 0.00999999999993062, 0.28917954514268196))

best\_fit\_distribution(pNov2,bins=200)

Out[75]:

('recipinvgauss',

(113349.53546527203, 0.009999999975983737, 0.3877387992668505))

best\_fit\_distribution(pDec2,bins=200)

Out[76]:

('recipinvgauss',

(1246847.3943053056, 0.009999999999477156, 0.34838681296353946))

paramsJan=st.pearson3.fit(pJan2)

paramsFeb=st.chi2.fit(pFeb2)

paramsMar=st.chi.fit(pMar2)

paramsApr=st.burr.fit(pApr2)

paramsMay=st.fatiguelife.fit(pMay2)

paramsJun=st.recipinvgauss.fit(pJun2)

paramsJul=st.halfgennorm.fit(pJul2)

paramsAug=st.betaprime.fit(pAug2)

paramsSep=st.recipinvgauss.fit(pSep2)

paramsOct=st.recipinvgauss.fit(pOct2)

paramsNov=st.recipinvgauss.fit(pNov2)

paramsDec=st.recipinvgauss.fit(pDec2)

best\_fit\_distribution(dpJan,bins=200)

Out[242]:

('burr',

(0.5314899728520038,

3.6337033572608295,

-0.7297066707306946,

0.5968034959959984))

best\_fit\_distribution(dpFeb,bins=200)

Out[244]:

('halfgennorm',

(0.14097665845727236, -0.6049932462990373, 2.4291177325321265e-05))

best\_fit\_distribution(dpMar,bins=200)

Out[245]:

('halfgennorm',

(0.15330111823972764, -0.6711064666916164, 0.00015543373900468044))

best\_fit\_distribution(dpApr,bins=200)

Out[246]:

('exponweib',

(1.3953859203788057,

0.5320789663122355,

-0.5503959265363362,

68.34801582333259))

best\_fit\_distribution(dpMay,bins=200)

Out[252]: ('pareto', (0.39334354654248593, -3.324343514436359, 2.856992702922822))

best\_fit\_distribution(dpJun,bins=200)

Out[254]: ('pareto', (0.38879165024962703, -3.239904214624241, 2.845069029218296))

best\_fit\_distribution(dpJul,bins=200)

Out[255]: ('invgamma', (0.45311709327860883, -1.51614375814726, 2.5637473444601078))

best\_fit\_distribution(dpAug,bins=200)

Out[256]: ('halfcauchy', (-0.25653990301392404, 7.1081649199734525))

best\_fit\_distribution(dpSep,bins=200)

Out[257]:

('truncnorm',

i(-368.0647558038346,

202.68416506309825,

0.5030974465850186,

24.760324088726186))

best\_fit\_distribution(dpOct,bins=200)

Out[258]: ('halfcauchy', (-0.520579311732702, 7.383311766184891))

best\_fit\_distribution(dpNov,bins=200)

Out[259]: ('halfcauchy', (-0.6762542014619539, 7.7071076738873305))

best\_fit\_distribution(dpDec,bins=200)

Out[260]: ('halfcauchy', (-0.6510451228253773, 7.815042570404096))