Model Selected: ['atemp', 'weathersit', 'workingday'] + one

['atemp', 'weathersit', 'workingday', 'season']

['atemp', 'weathersit', 'workingday', 'month\_all']

['atemp', 'weathersit', 'workingday', 'windspeed']

['atemp', 'weathersit', 'workingday', 'season']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 29663.47110319361

R2 - 0.0788543657935522

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 28389.273128323475

R2 - 0.11842228748360539

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 30013.84314590882

R2 - 0.07360830030915821

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 28761.35067538096

R2 - 0.1122670826244262

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 29608.97725287025

R2 - 0.07201828447730951

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 28301.323544860537

R2 - 0.11300175786461897

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 29612.0478279676

R2 - 0.07106048943198506

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 28311.351160580027

R2 - 0.11186376425512279

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 29900.441869501214

R2 - 0.06800296939222583

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 28631.378774755325

R2 - 0.10755967698601931

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 29570.97300702242

R2 - 0.07342756458744715

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 28250.15294763946

R2 - 0.11481394233273101

['atemp', 'weathersit', 'workingday', 'month\_all']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 28275.144478807462

R2 - 0.1219663470063036

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 26772.41835565779

R2 - 0.16863079847699713

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 28444.62293727891

R2 - 0.12204303654719428

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 27051.117025452546

R2 - 0.16505426652898447

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 28204.66205977195

R2 - 0.11603124753565386

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 26714.16420176687

R2 - 0.16274528116950282

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 28104.616937624927

R2 - 0.11834908364286834

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 26672.972765572213

R2 - 0.16326022400777562

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 28418.7307967917

R2 - 0.11418791629070324

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 27003.962402997466

R2 - 0.15828625931080764

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 28337.32076741493

R2 - 0.11208263893463921

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 26755.170611014488

R2 - 0.161657494765598

['atemp', 'weathersit', 'workingday', 'windspeed']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 29870.57485446436

R2 - 0.07242313204996331

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 28415.983555116934

R2 - 0.11759284331832232

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 30071.324477222523

R2 - 0.071834111380492

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 28686.62848415661

R2 - 0.11457341898383333

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 29547.462777210083

R2 - 0.073946223702129

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 28243.380758045714

R2 - 0.11481775597395494

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 29529.173593674583

R2 - 0.07366028094556432

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 28222.467647976384

R2 - 0.11465206877142209

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 29765.490261777268

R2 - 0.07220941216733245

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 28532.528468824206

R2 - 0.11064084187329959

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 29369.249579428062

R2 - 0.07974833622866051

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 28087.52709154494

R2 - 0.11990963652942743

Model: ["atemp", "weathersit", "workingday", "hr"] 2C4

['atemp', 'weathersit']

['atemp', 'workingday']

['atemp', 'hr']

['weathersit', 'workingday']

['weathersit', 'hr']

['workingday', 'hr']

['atemp', 'weathersit']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 29059.513034799464

R2 - 0.0976091951258865

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 28666.93147512592

R2 - 0.10980010793259143

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 29339.55311824483

R2 - 0.09442058621921423

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 28996.86277608732

R2 - 0.10499788839926516

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 28828.95310328372

R2 - 0.0964651994214002

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 28503.332364692895

R2 - 0.10667055332561137

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 28894.627622349235

R2 - 0.09356619314253012

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 28514.45568399392

R2 - 0.10549230971505352

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 29208.186712588857

R2 - 0.08958056859564512

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 28828.590928932626

R2 - 0.1014125724417052

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 28824.909707309063

R2 - 0.09680460018323789

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 28444.013592298706

R2 - 0.10873954195334856

['atemp', 'workingday']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 29437.83621558081

R2 - 0.08586105057855753

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 29156.280519536995

R2 - 0.09460425528627614

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 29628.190850551204

R2 - 0.08551164383131937

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 29390.76422608105

R2 - 0.09283993075297436

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 29099.169237080572

R2 - 0.08799629388436736

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 28851.767951017122

R2 - 0.0957501540701805

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 29107.416929113442

R2 - 0.08689092381877339

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 28873.60515834478

R2 - 0.09422567463251974

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 29430.899488427414

R2 - 0.0826386094545104

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 29212.75039980769

R2 - 0.08943831842572658

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 29078.067051538197

R2 - 0.08887220590830969

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 28842.87421901464

R2 - 0.09624170286639677

['atemp', 'hr']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 15889.527802589833

R2 - 0.5065793509451494

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 25478.631442390702

R2 - 0.20880701934486134

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 15811.312698342459

R2 - 0.5119762313092033

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 25709.459732984124

R2 - 0.20646516394489411

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 15516.014012269889

R2 - 0.5137090626869072

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 25342.948341192674

R2 - 0.20572087049095478

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 15426.009941309592

R2 - 0.5160810826678655

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 25428.28651750446

R2 - 0.20230643387505698

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 15439.555543618937

R2 - 0.5187489207230003

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 25717.409988139974

R2 - 0.198388109163117

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 15217.653543339315

R2 - 0.5231723250510598

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 25491.92625692897

R2 - 0.2012398039918859

['weathersit', 'workingday']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 33507.069924554504

R2 - -0.0405016684891808

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 33410.77781460383

R2 - -0.03751149055683367

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 33894.61007890254

R2 - -0.04617343699395393

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 33832.64451979331

R2 - -0.044260840218312225

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 33548.94774278341

R2 - -0.0514652301038625

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 33490.0047278203

R2 - -0.04961788361578856

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 33540.77575462313

R2 - -0.05218497533777655

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 33458.56048745348

R2 - -0.04960585583582655

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 33713.642011075885

R2 - -0.050854511864121266

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 33646.57383207249

R2 - -0.04876399614692084

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 33499.3214905304

R2 - -0.04966271792198529

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 33444.9667072681

R2 - -0.04795957329121148

['weathersit', 'hr']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 16665.317305862714

R2 - 0.48248860608535227

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 28410.83297870721

R2 - 0.1177527851861152

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 16826.25490938634

R2 - 0.480649551969737

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 28709.030615267326

R2 - 0.11388196643590509

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 16606.265144368368

R2 - 0.47953925306211764

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 28403.523356250655

R2 - 0.10979869024462197

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 16545.583794895025

R2 - 0.48095968905009157

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 28519.290547980763

R2 - 0.10534063846922503

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 16580.125962208716

R2 - 0.4831973309517127

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 28740.521945004555

R2 - 0.10415768342929

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 16346.497206598617

R2 - 0.4878013069239995

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 28670.81468824254

R2 - 0.10163299041130058

['workingday', 'hr']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 13748.756768454065

R2 - 0.573057137211959

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 28980.792528503523

R2 - 0.10005371857510681

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 13639.793199588083

R2 - 0.579001224729184

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 29253.84264831543

R2 - 0.09706608108414028

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 13326.471872459617

R2 - 0.5823320027417986

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 28931.430541303896

R2 - 0.09325343064181102

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 13232.894303525836

R2 - 0.5848798290098111

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 29033.58595993037

R2 - 0.08920702518319545

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 13158.141085492436

R2 - 0.5898606290328485

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 29241.150500383286

R2 - 0.08855308704617237

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 12962.79398200928

R2 - 0.5938257565346532

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 29170.298507922806

R2 - 0.08598223927976345

Model Selected:

['atemp', 'weathersit', 'workingday']

['atemp', 'weathersit', 'hr']

['atemp', 'workingday', 'hr']

['weathersit', 'workingday', 'hr']

['atemp', 'weathersit', 'workingday']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 29719.63840803582

R2 - 0.07711019136903674

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 28737.631846661687

R2 - 0.10760463531408404

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 29937.209698052924

R2 - 0.07597362852345146

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 29029.77258099241

R2 - 0.1039821114474665

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 29453.40506488491

R2 - 0.07689410793656992

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 28560.241163029055

R2 - 0.1048869616852347

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 29489.240326462696

R2 - 0.07491300044388138

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 28554.81693392254

R2 - 0.1042261642605945

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 29768.171865789944

R2 - 0.07212582654716049

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 28866.58489720711

R2 - 0.10022830012334383

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 29391.182722320766

R2 - 0.07906108641711329

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 28474.48628101095

R2 - 0.10778471529319888

**['atemp', 'weathersit', 'hr']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 15715.795461202772**

**R2 - 0.5119742956983251**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 25129.123798820998**

**R2 - 0.21966034931679967**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 15770.82805549732**

**R2 - 0.5132258092760887**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 25417.561120852584**

**R2 - 0.2154747549564603**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 15513.943985472051**

**R2 - 0.5137739398693453**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 25063.214377348268**

**R2 - 0.2144880765123357**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 15448.269319749417**

**R2 - 0.5153827987722847**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 25133.52565788534**

**R2 - 0.21155317730394563**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 15467.528948236648**

**R2 - 0.5178769894601286**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 25430.280886849992**

**R2 - 0.2073379257233967**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 15210.96965233921**

**R2 - 0.523381757089719**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 25203.354216687276**

**R2 - 0.21028187704288837**

**['atemp', 'workingday', 'hr']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 13126.298545049876**

**R2 - 0.5923864555162803**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 25453.213224602634**

**R2 - 0.20959633628836183**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 12879.154658035206**

**R2 - 0.6024786990377542**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 25688.05560434658**

**R2 - 0.207125812666637**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 12536.88083015552**

**R2 - 0.6070787558545789**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 25315.4357008872**

**R2 - 0.2065831504316359**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 12399.50173489285**

**R2 - 0.61102362322879**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 25394.853888957547**

**R2 - 0.20335522623753732**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 12317.578447490292**

**R2 - 0.6160609736992233**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 25694.427159764655**

**R2 - 0.19910448412152904**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 12101.70738401409**

**R2 - 0.620806914916423**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 25473.588402765217**

**R2 - 0.2018143995653463**

**['weathersit', 'workingday', 'hr']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 13762.638691780237**

**R2 - 0.5726260591017199**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 28435.71276802954**

**R2 - 0.11698018816823708**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 13721.30535145035**

**R2 - 0.5764853129699984**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 28740.24624377713**

**R2 - 0.11291848105312585**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 13370.1618777362**

**R2 - 0.5809627043124235**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 28451.090046223464**

**R2 - 0.10830789175517319**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 13248.34295100951**

**R2 - 0.5843951999454589**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 28538.91657352169**

**R2 - 0.10472496370514595**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 13204.777848906824**

**R2 - 0.5884069607155351**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 28762.71168169635**

**R2 - 0.10346602914548442**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 12980.864322760144**

**R2 - 0.5932595431863712**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 28692.089633063904**

**R2 - 0.10096636447945462**

**['atemp', 'weathersit', 'workingday', 'hr']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 13345.394215152694**

**R2 - 0.5855828343457621**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 25109.09364226575**

**R2 - 0.22028234972933225**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 13174.640964592109**

**R2 - 0.5933583721127456**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 25411.32451600652**

**R2 - 0.21566725076366366**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 12803.264369449893**

**R2 - 0.5987299685367922**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 25056.05392864571**

**R2 - 0.21471249376978307**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 12675.896136070027**

**R2 - 0.6023530415370107**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 25126.62181024916**

**R2 - 0.21176975323552072**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 12623.274529730583**

**R2 - 0.6065324241828034**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 25423.48536603433**

**R2 - 0.2075497421657514**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 12377.255439940456**

**R2 - 0.6121729334376176**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 25201.86841386589**

**R2 - 0.21032843296576675**

**Model Selected:**

**['atemp', 'weathersit', 'workingday', 'hr', 'season']**

**['atemp', 'weathersit', 'workingday', 'hr', 'month\_all']**

**['atemp', 'weathersit', 'workingday', 'hr', 'windspeed']**

**['atemp', 'weathersit', 'workingday', 'hr', 'season']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 12368.579456325848**

**R2 - 0.6159160562196142**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 24844.340607238726**

**R2 - 0.22850377808172073**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 12258.413075850889**

**R2 - 0.6216381864313871**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 25145.74657848123**

**R2 - 0.22386444149823226**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 12026.58671308203**

**R2 - 0.6230720002729448**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 24829.221161961555**

**R2 - 0.22182171129413764**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 11906.941537589737**

**R2 - 0.6264753958068381**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 24871.724356643674**

**R2 - 0.21976596873445964**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 11861.781356251058**

**R2 - 0.630268172958975**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 25200.541406627766**

**R2 - 0.2144989073006921**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 11623.974640529677**

**R2 - 0.6357761210869997**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 24980.435525438996**

**R2 - 0.2172667778981916**

**['atemp', 'weathersit', 'workingday', 'hr', 'month\_all']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 15356.262718308222**

**R2 - 0.5231389370620908**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 23109.461063144805**

**R2 - 0.2823773356420204**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 14692.99943082**

**R2 - 0.546493508008844**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 23352.66994373116**

**R2 - 0.27920861396114705**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 14103.026823373539**

**R2 - 0.5579938167452902**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 23073.46776491624**

**R2 - 0.276849179332297**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 13908.799468628076**

**R2 - 0.5636764655373443**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 23148.401816069287**

**R2 - 0.27382715378630995**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 13846.264254638641**

**R2 - 0.5684118239236894**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 23494.734605249087**

**R2 - 0.26766891999194575**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 13611.383719332132**

**R2 - 0.5735029429311879**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 23364.77897861909**

**R2 - 0.2678915179438317**

**['atemp', 'weathersit', 'workingday', 'hr', 'windspeed']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 13738.032088989372**

**R2 - 0.573390172804213**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 24997.169884247905**

**R2 - 0.22375794032031404**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 13642.710993479232**

**R2 - 0.5789111656178256**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 25269.00962768416**

**R2 - 0.22005986821832746**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 13243.81390361876**

**R2 - 0.5849226050132474**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 24928.088257380565**

**R2 - 0.2187230950862178**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 13102.380956648438**

**R2 - 0.5889740748814654**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 24990.13553936914**

**R2 - 0.21605137166350363**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 13074.913942874877**

**R2 - 0.5924548197850814**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 25274.731444762445**

**R2 - 0.21218640317302817**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 12841.027159678746**

**R2 - 0.5976411798922971**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 25022.672453571467**

**R2 - 0.2159433323235479**

Model Selected:

['atemp', 'weathersit', 'workingday', 'hr', 'season', 'month\_all']

['atemp', 'weathersit', 'workingday', 'hr', 'season', 'windspeed']

['atemp', 'weathersit', 'workingday', 'hr', 'month\_all', 'windspeed']

['atemp', 'weathersit', 'workingday', 'hr', 'season', 'month\_all']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 15067.932831073875

R2 - 0.5320925020684654

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 23107.43143345441

R2 - 0.28244036213416157

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 14517.805447547626

R2 - 0.5519009545377777

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 23351.36392743621

R2 - 0.279248924782038

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 13888.282070406516

R2 - 0.5647241810721607

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 23070.410626239885

R2 - 0.2769449938134675

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 13711.459206563972

R2 - 0.569867093335941

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 23148.73877055053

R2 - 0.2738165834153342

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 13676.09479280412

R2 - 0.5737160075147576

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 23492.862265564057

R2 - 0.2677272808360548

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 13495.038017136463

R2 - 0.5771485017231702

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 23365.202003507427

R2 - 0.2678782629453934

**['atemp', 'weathersit', 'workingday', 'hr', 'season', 'windspeed']**

**Kernel - rbf**

**Test data ratio: 0.33 out of 1.**

**RMSE - 12627.82837190658**

**R2 - 0.6078655483768474**

**Kernel - linear**

**Test data ratio: 0.33 out of 1.**

**RMSE - 24697.903384688**

**R2 - 0.23305112211198142**

**Kernel - rbf**

**Test data ratio: 0.25 out of 1.**

**RMSE - 12514.79866466326**

**R2 - 0.6137247219596269**

**Kernel - linear**

**Test data ratio: 0.25 out of 1.**

**RMSE - 25031.210412942895**

**R2 - 0.22739965531784578**

**Kernel - rbf**

**Test data ratio: 0.2 out of 1.**

**RMSE - 12297.076926584838**

**R2 - 0.614594504741278**

**Kernel - linear**

**Test data ratio: 0.2 out of 1.**

**RMSE - 24723.826359753093**

**R2 - 0.2251249138507576**

**Kernel - rbf**

**Test data ratio: 0.17 out of 1.**

**RMSE - 12235.857463082297**

**R2 - 0.6161571969230544**

**Kernel - linear**

**Test data ratio: 0.17 out of 1.**

**RMSE - 24737.33984488044**

**R2 - 0.22398165429968941**

**Kernel - rbf**

**Test data ratio: 0.14 out of 1.**

**RMSE - 12197.430717456562**

**R2 - 0.6198059794792188**

**Kernel - linear**

**Test data ratio: 0.14 out of 1.**

**RMSE - 25050.018895604742**

**R2 - 0.21919069526574475**

**Kernel - rbf**

**Test data ratio: 0.12 out of 1.**

**RMSE - 11981.168423276682**

**R2 - 0.6245838646429686**

**Kernel - linear**

**Test data ratio: 0.12 out of 1.**

**RMSE - 24804.756625459464**

**R2 - 0.2227714742152851**

['atemp', 'weathersit', 'workingday', 'hr', 'month\_all', 'windspeed']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 14596.261099389869

R2 - 0.5467394176269261

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 22950.121034524327

R2 - 0.28732535306073315

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 14037.10976931669

R2 - 0.5667378577702482

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 23196.060557317065

R2 - 0.2840424379723674

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 13501.65124762688

R2 - 0.5768416659529401

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 22898.5107839357

R2 - 0.282332546014179

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 13356.33030365219

R2 - 0.5810076017930378

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 22956.656625627915

R2 - 0.27984226237985177

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 13316.237210983614

R2 - 0.5849327714395911

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 23285.423034026473

R2 - 0.2741931634697756

Kernel - rbf

Test data ratio: 0.12 out of 1.

RMSE - 13114.734324714578

R2 - 0.5890648806126999

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 23118.280770771868

R2 - 0.2756152558375964

Model Selected:

['atemp', 'weathersit', 'workingday', 'hr', 'season', 'month\_all', 'windspeed']

['atemp', 'weathersit', 'workingday', 'hr', 'season', 'month\_all', 'windspeed']

Kernel - rbf

Test data ratio: 0.33 out of 1.

RMSE - 14561.578704733043

R2 - 0.5478164168867504

Kernel - linear

Test data ratio: 0.33 out of 1.

RMSE - 22953.19732808902

R2 - 0.28722982430832256

Kernel - rbf

Test data ratio: 0.25 out of 1.

RMSE - 14009.368736750837

R2 - 0.5675940980785927

Kernel - linear

Test data ratio: 0.25 out of 1.

RMSE - 23207.64458143423

R2 - 0.28368489149826237

Kernel - rbf

Test data ratio: 0.2 out of 1.

RMSE - 13496.470103823356

R2 - 0.577004049363691

Kernel - linear

Test data ratio: 0.2 out of 1.

RMSE - 22915.548321549377

R2 - 0.2817985686583252

Kernel - rbf

Test data ratio: 0.17 out of 1.

RMSE - 13357.525189502714

R2 - 0.5809701178377362

Kernel - linear

Test data ratio: 0.17 out of 1.

RMSE - 22976.37539924134

R2 - 0.27922367807876336

Kernel - rbf

Test data ratio: 0.14 out of 1.

RMSE - 13326.433959505714

R2 - 0.5846149387003317

Kernel - linear

Test data ratio: 0.14 out of 1.

RMSE - 23303.848854804673

R2 - 0.27361883047741575

***Kernel - rbf***

***Test data ratio: 0.12 out of 1.***

***RMSE - 13189.019909012715***

***R2 - 0.586737227249964***

Kernel - linear

Test data ratio: 0.12 out of 1.

RMSE - 23140.17474063778

R2 - 0.2749292334677985