Log File

Experiment Number	Parameters Chosen	Results
1	LSTM RNN: Layers: LSTM (100), Dropout(.2), LSTM(80), Dropout(.2), Dense(1) Epochs: 20 Train/Test Split: 90/10 AA: False Resample: hour/sum Train On: 31129 Samples Validate On: 3459 Samples Total Params: 100,401	Epoch 20/20: loss = .0089, val_loss = .0061 Train RMSE: 37.88 Train R^2: 0.517 Test RMSE: 30.64 Test R^2: 0.478
2	LSTM RNN: Layers: LSTM (100), Dropout(.2), LSTM(80), Dropout(.2), Dense(1) Train/Test Split: 90/10 AA: True Resample: hour/sum Train On: 31129 Samples Validate On: 3459 Samples Total Params: 101,201	Epoch 20/20: loss = .0089, val_loss = .0061 Train RMSE: 37.929 Train R^2: 0.515 Test RMSE: 30.54 Test R^2: 0.4816
3	LSTM RNN: Layers: LSTM (100), Dropout(.2), LSTM(80), Dropout(.2), Dense(1) Epochs: 20 Train/Test Split: 80/10 AA: False Resample: hour/sum Train On: 31129 Samples Validate On: 3459 Samples Total Params: 100,401	Epoch 20/20: loss = .0091, val_loss = .0076 Train RMSE: 38.25 Train R^2: 0.528 Test RMSE: 34.055 Test R^2: 0.385
4	LSTM RNN: Layers: LSTM (100), Dropout(.2), LSTM(80), Dropout(.2), Dense(1) Epochs: 20 Train/Test Split: 90/10 AA: False Resample: hour/mean Train On: 31129 Samples Validate On: 3459 Samples Total Params: 100,401	Epoch 20/20: loss = .0091, val_loss = .0063 Train RMSE: 0.6304 Train R^2: 0.5185 Test RMSE: 0.5101 Test R^2: .4792
5	LSTM RNN: Layers: LSTM (100), Dropout(.2), LSTM(80), Dropout(.2), Dense(1) Epochs: 20 Train/Test Split: 90/10 AA: False Resample: day/mean Train On: 1296 Samples Validate On: 145 Samples Total Params: 100,401	Epoch 20/20: loss = .0117, val_loss = .0066 Train RMSE: 0.3302 Train R^2: 0.3766 Test RMSE: 0.255 Test R^2: 0.4016
6	LSTM RNN:	Epoch 50/50 : loss = .0090, val_loss =

	Layers: LSTM (100), Dropout(.2), LSTM(80), Dropout(.2), Dense(1) Epochs: 50 Train/Test Split: 90/10 AA: False Resample: hour/mean Train On: 31129 Samples Validate On: 3459 Samples Total Params: 100,401	.0063 Train RMSE: 0.6249 Train R^2: 0.5267 Test RMSE: 0.5097 Test R^2: 0.480
7	LSTM RNN: Layers: LSTM (100), Dropout(.2), LSTM(80), Dropout(.2), LSTM(80), Dropout(.2), Dense(1) Epochs: 20 Train/Test Split: 90/10 AA: False Resample: hour/mean Train On: 31129 Samples Validate On: 3459 Samples Total Params: 151,921	Epoch 50/50: loss = .0089, val_loss = .0063 Train RMSE: 0.6298 Train R^2: 0.5193 Test RMSE: 0.5099 Test R^2: 0.4796
8	LSTM RNN: Layers: LSTM (70), Dropout(.2), LSTM(40), Dropout(.2), Dense(1) Epochs: 50 Train/Test Split: 90/10 AA: False Resample: hour/mean Train On: 31129 Samples Validate On: 3459 Samples Total Params: 39,081	Epoch 50/50: loss = .0090, val_loss = .0063 Train RMSE: 0.6224 Train R^2: 0.5305 Test RMSE: 0.5089 Test R^2:0.4815