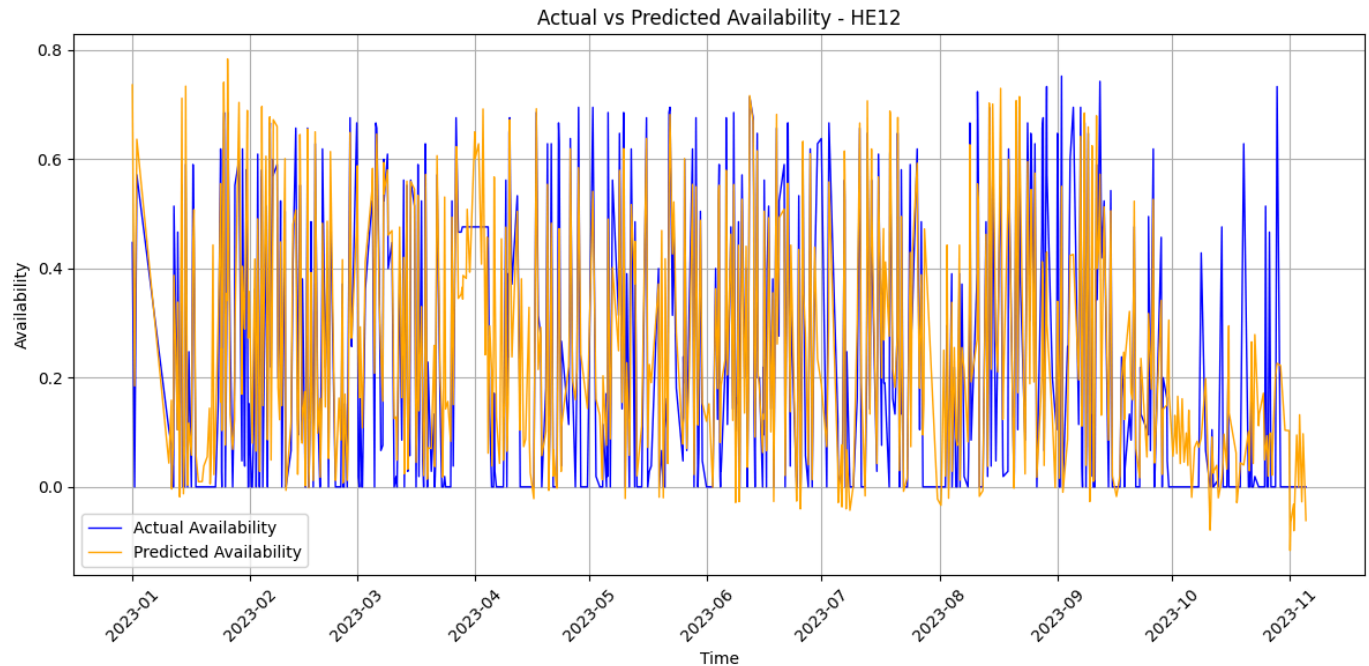


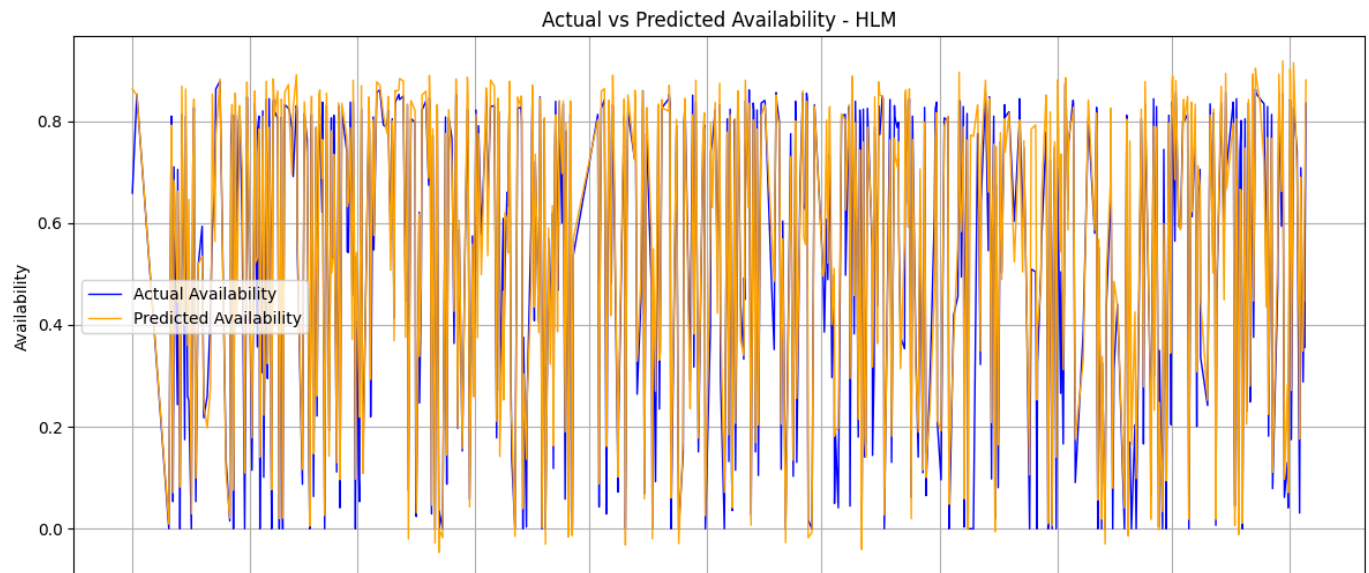
```
...  
Processing carpark: HE12  
Performing hyperparameter tuning using GridSearchCV...  
Fitting 3 folds for each of 72 candidates, totalling 216 fits  
  
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.001, 'hidden_layer_sizes': (128, 64), 'learning_rate_i  
  
MLP Results:  
MAE: 0.10  
MSE: 0.02  
R2: 0.72
```



Model saved for carpark HE12: mlp\_model\_HE12.pkl

```
Processing carpark: HLM  
Performing hyperparameter tuning using GridSearchCV...  
Fitting 3 folds for each of 72 candidates, totalling 216 fits
```

```
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.001, 'hidden_layer_sizes': (128, 64), 'learning_rate_i  
  
MLP Results:  
MAE: 0.06  
MSE: 0.01  
R2: 0.91
```



Model saved for carpark HLM: mlp\_model\_HLM.pkl

Processing carpark: RHM

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

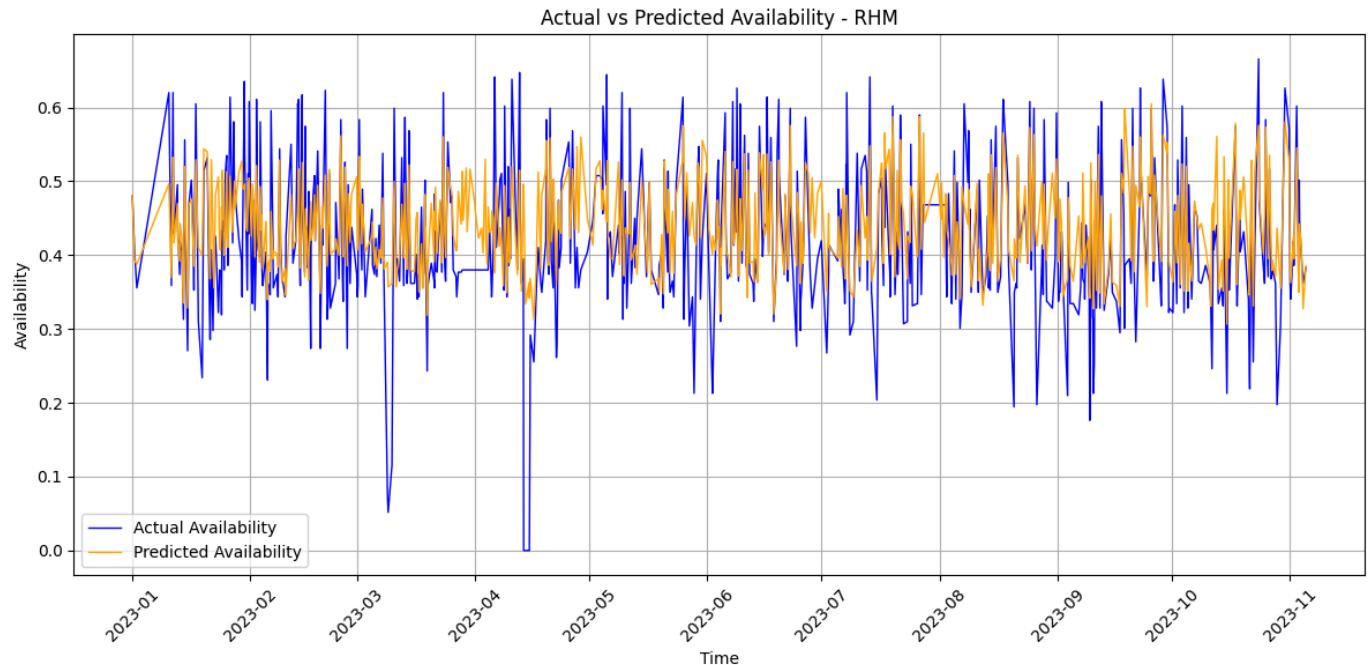
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.01, 'hidden\_layer\_sizes': (128, 64), 'learning\_rate\_ir

MLP Results:

MAE: 0.06

MSE: 0.01

R2: 0.38



Model saved for carpark RHM: mlp\_model\_RHM.pkl

Processing carpark: BM29

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

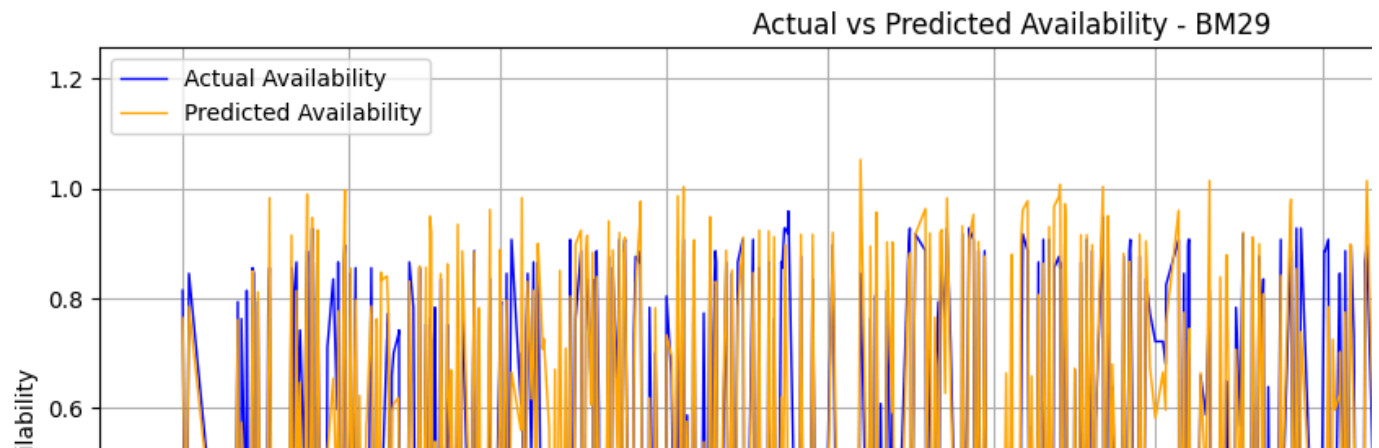
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.0001, 'hidden\_layer\_sizes': (128, 64), 'learning\_rate\_

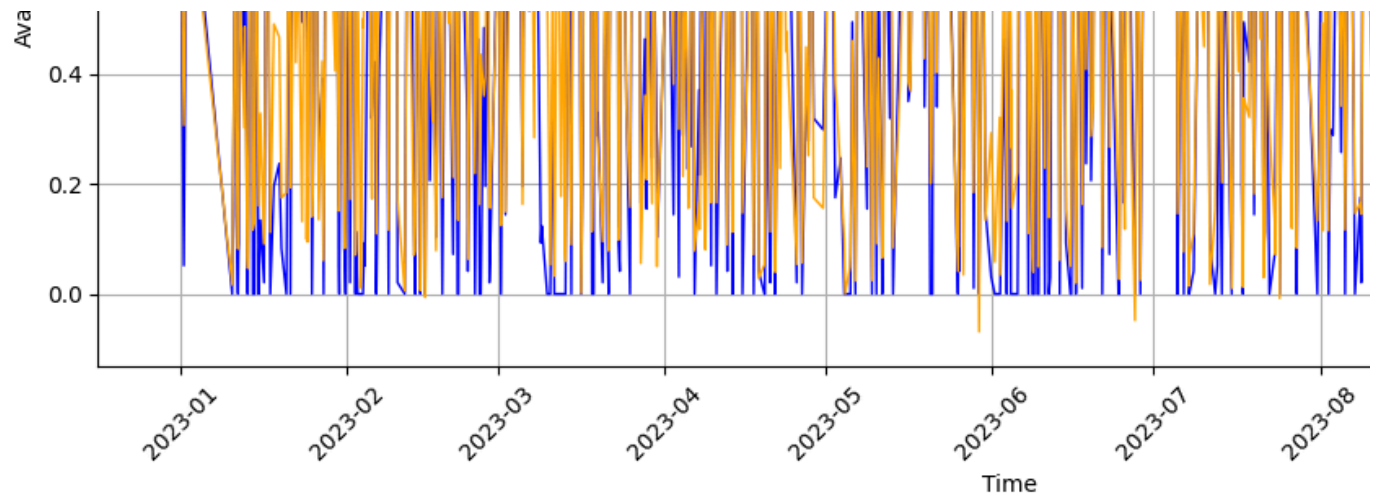
MLP Results:

MAE: 0.14

MSE: 0.04

R2: 0.70





Model saved for carpark BM29: mlp\_model\_BM29.pkl

Processing carpark: Q81

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

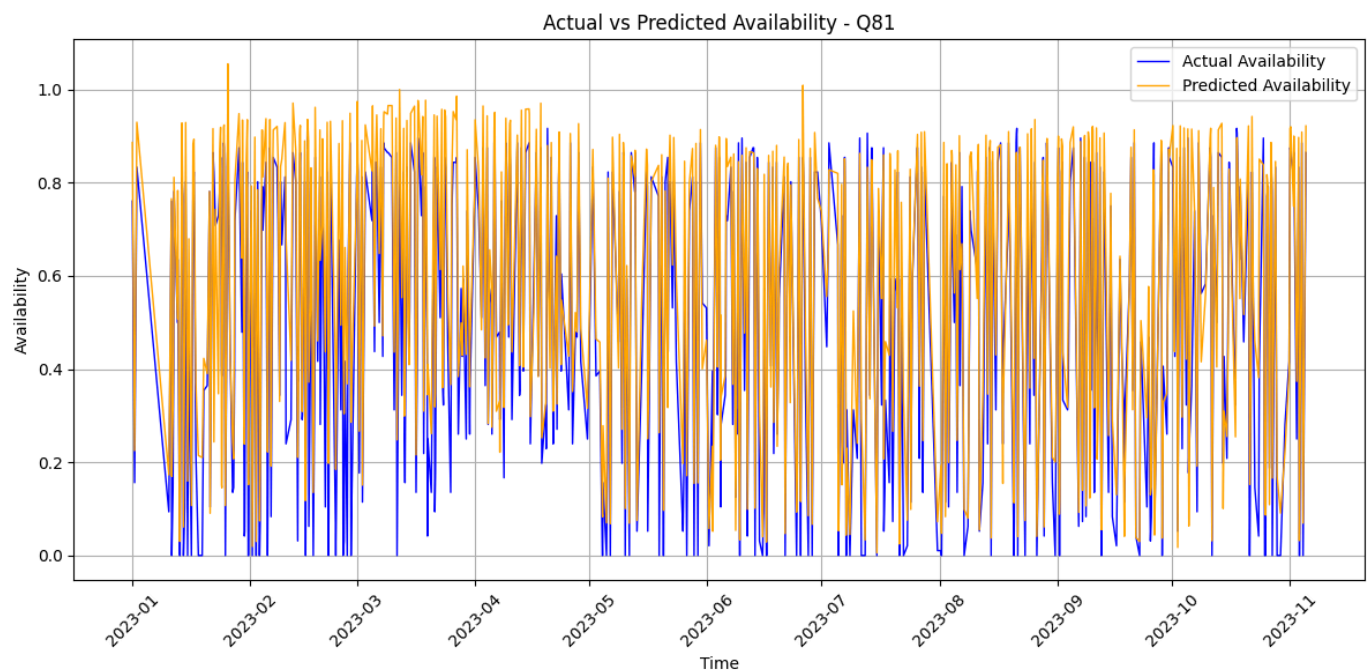
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.0001, 'hidden\_layer\_sizes': (64, 32), 'learning\_rate\_i

MLP Results:

MAE: 0.09

MSE: 0.02

R2: 0.84



Model saved for carpark Q81: mlp\_model\_Q81.pkl

Processing carpark: C20

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

Best Hyperparameters: {'activation': 'relu', 'alpha': 0.01, 'hidden\_layer\_sizes': (64, 32), 'learning\_rate\_ini

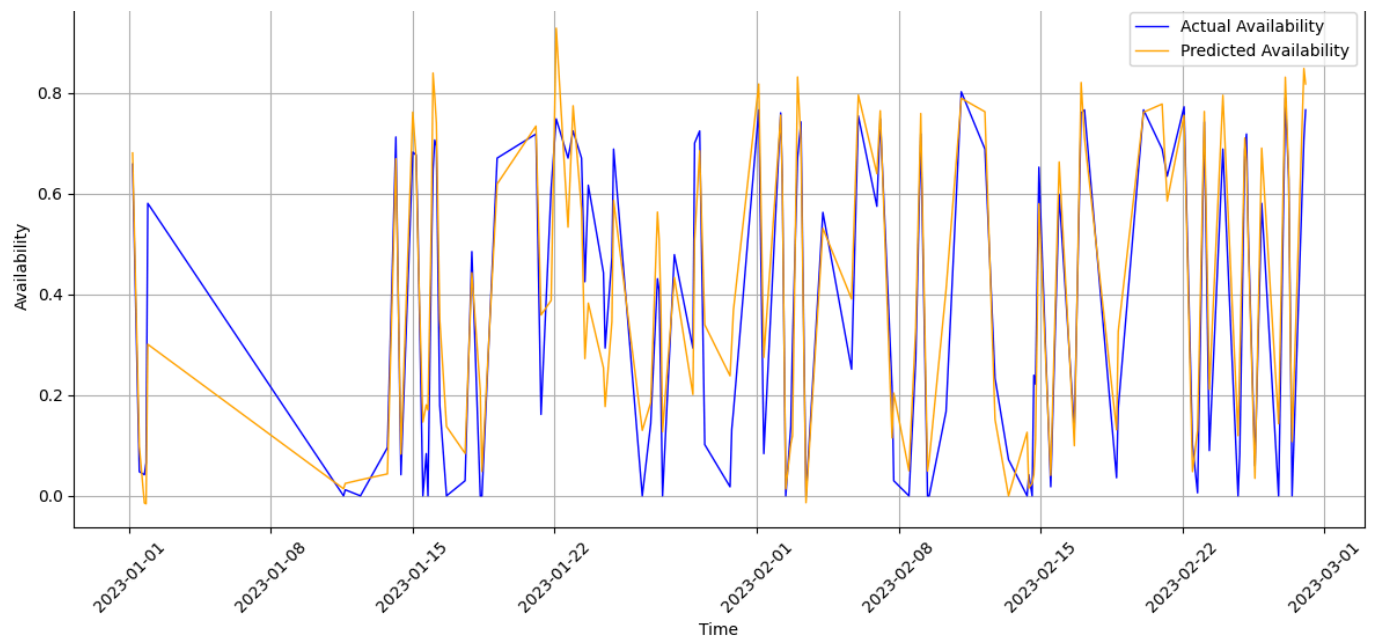
MLP Results:

MAE: 0.09

MSE: 0.01

R2: 0.86

Actual vs Predicted Availability - C20



Model saved for carpark C20: mlp\_model\_C20.pkl

Processing carpark: FR3M

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

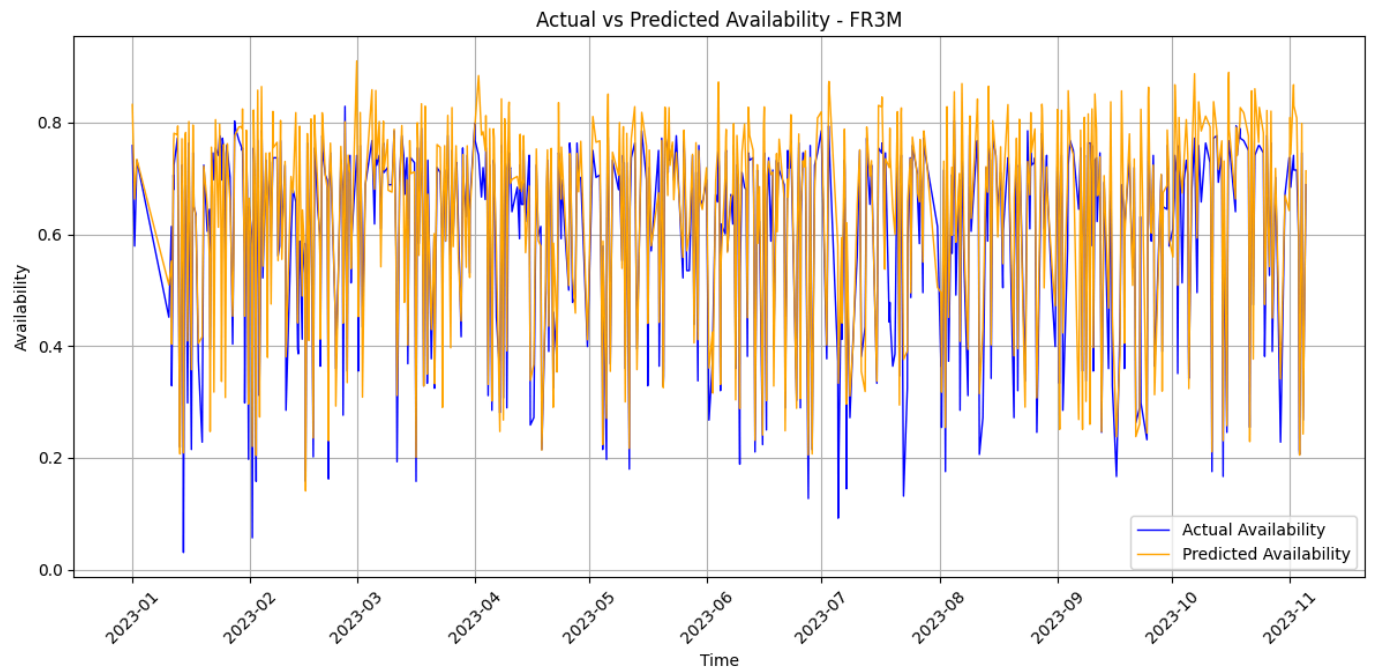
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.0001, 'hidden\_layer\_sizes': (64, 32), 'learning\_rate\_i

MLP Results:

MAE: 0.06

MSE: 0.01

R2: 0.78



Model saved for carpark FR3M: mlp\_model\_FR3M.pkl

Processing carpark: C32

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

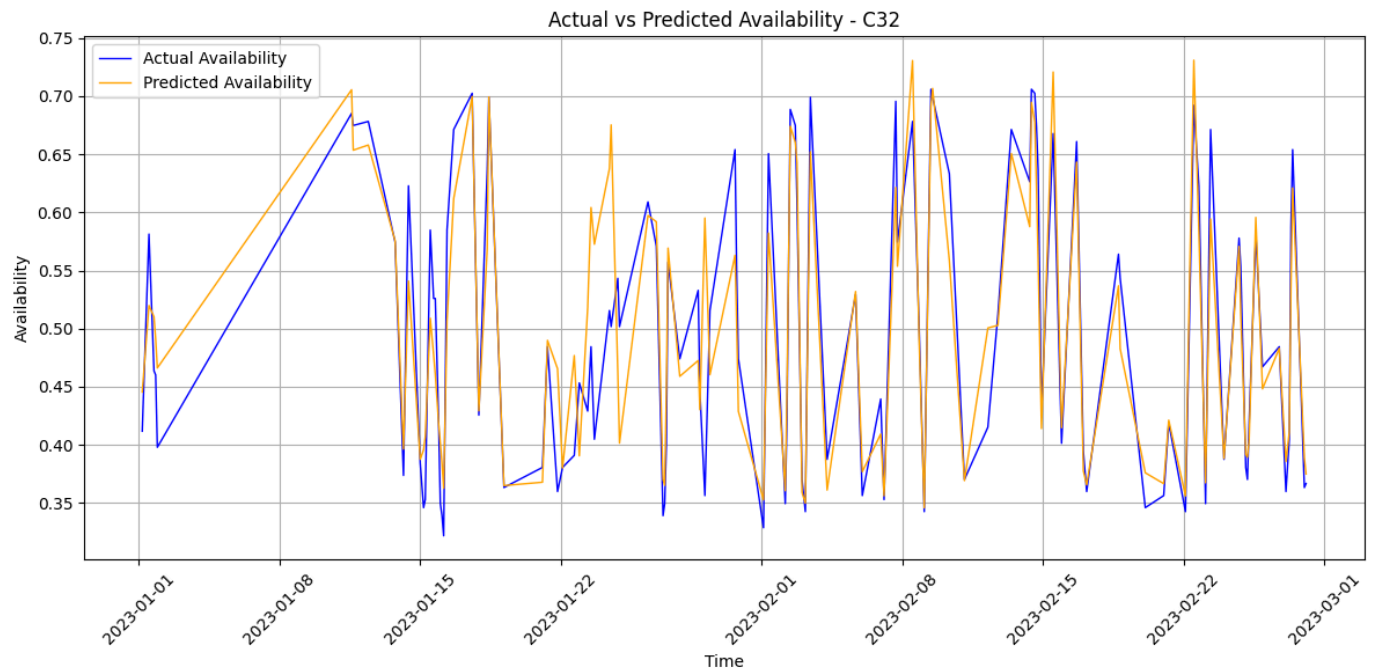
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.001, 'hidden\_layer\_sizes': (128, 64), 'learning\_rate\_i

MLP Results:

MAE: 0.04

MSE: 0.00

R2: 0.81



Model saved for carpark C32: mlp\_model\_C32.pkl

Processing carpark: C6

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

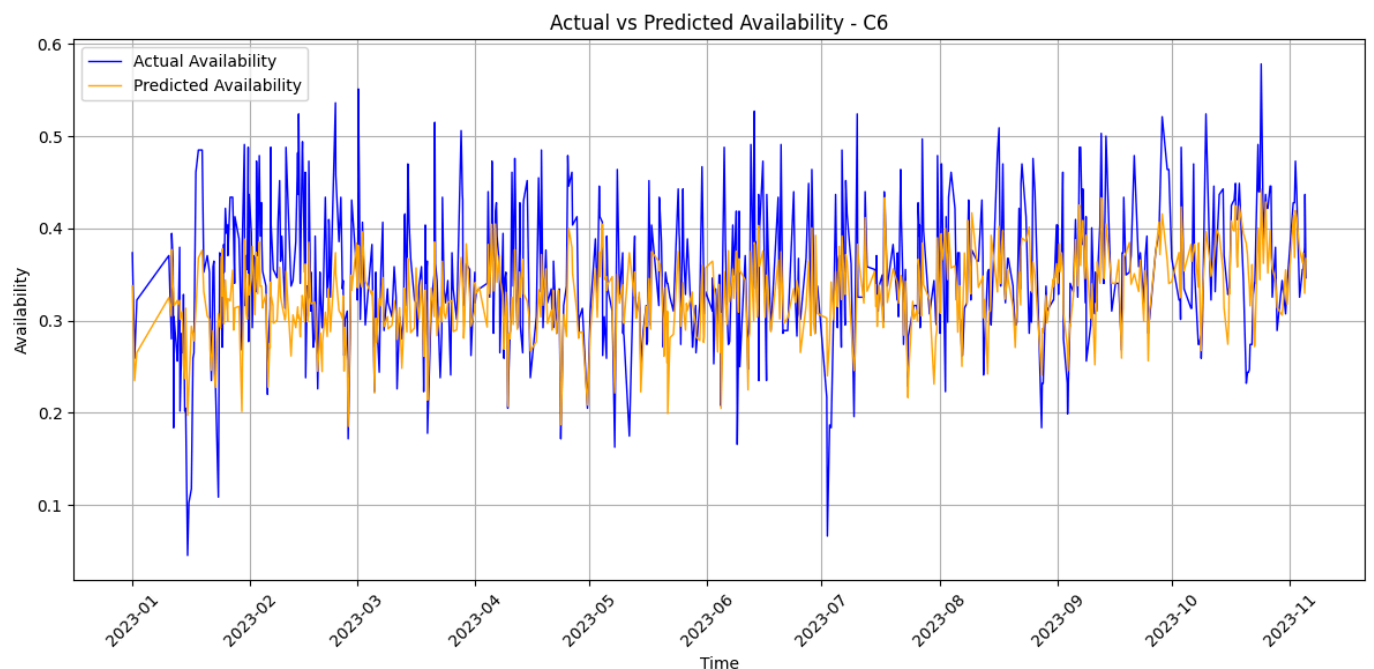
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.01, 'hidden\_layer\_sizes': (128, 64), 'learning\_rate\_ir

MLP Results:

MAE: 0.05

MSE: 0.00

R2: 0.29



Model saved for carpark C6: mlp\_model\_C6.pkl

Processing carpark: TG2

Performing hyperparameter tuning using GridSearchCV...



Fitting 3 folds for each of 72 candidates, totalling 216 fits

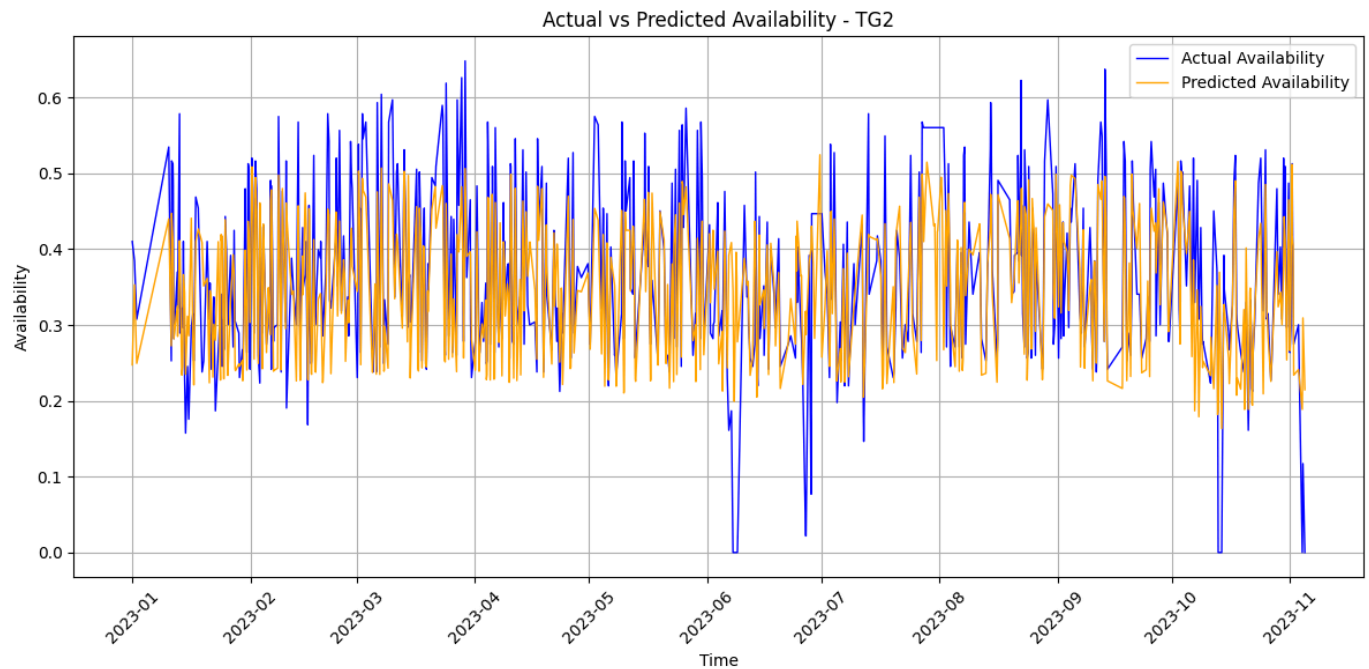
Best Hyperparameters: {'activation': 'relu', 'alpha': 0.01, 'hidden\_layer\_sizes': (128, 64), 'learning\_rate\_ir

MLP Results:

MAE: 0.06

MSE: 0.01

R2: 0.54



Model saved for carpark TG2: mlp\_model\_TG2.pkl

Processing carpark: BP1

Performing hyperparameter tuning using GridSearchCV...

Fitting 3 folds for each of 72 candidates, totalling 216 fits

Best Hyperparameters: {'activation': 'relu', 'alpha': 0.0001, 'hidden\_layer\_sizes': (128, 64), 'learning\_rate\_

MLP Results:

MAE: 0.04

MSE: 0.00

R2: 0.59

