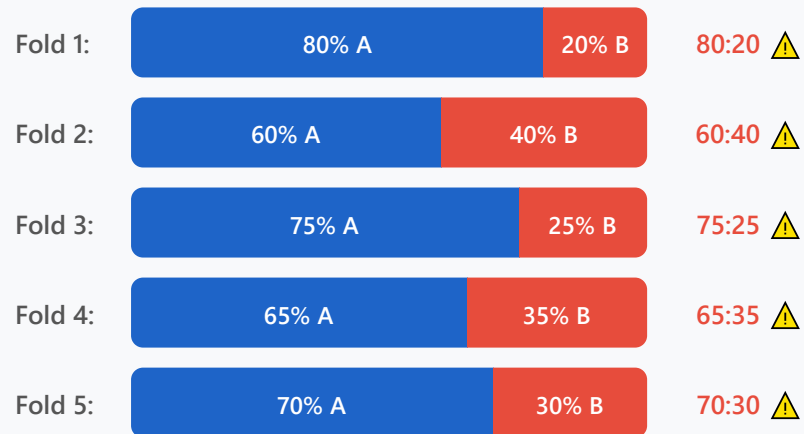


Stratified K-fold Cross Validation



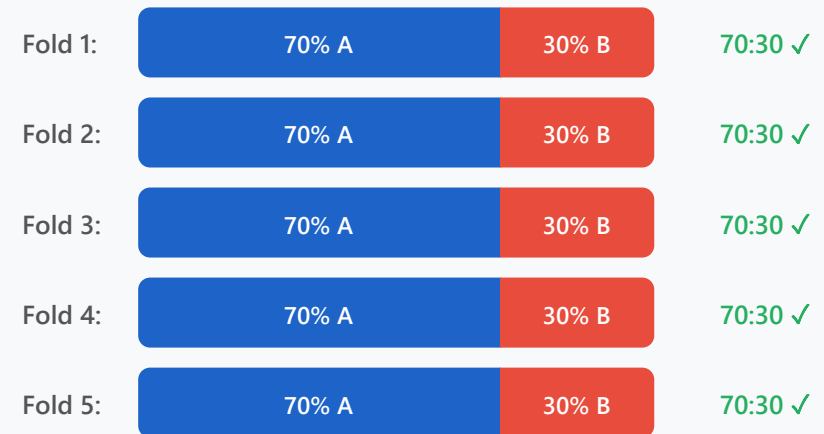
Regular K-fold

Original: 70% Class A, 30% Class B



Stratified K-fold

Original: 70% Class A, 30% Class B



Key Benefits



Maintains class distribution in each fold



Reduces variance in performance estimates



Essential for imbalanced datasets



More reliable for classification tasks



When to Use

Always prefer stratified K-fold for classification problems, especially with imbalanced classes