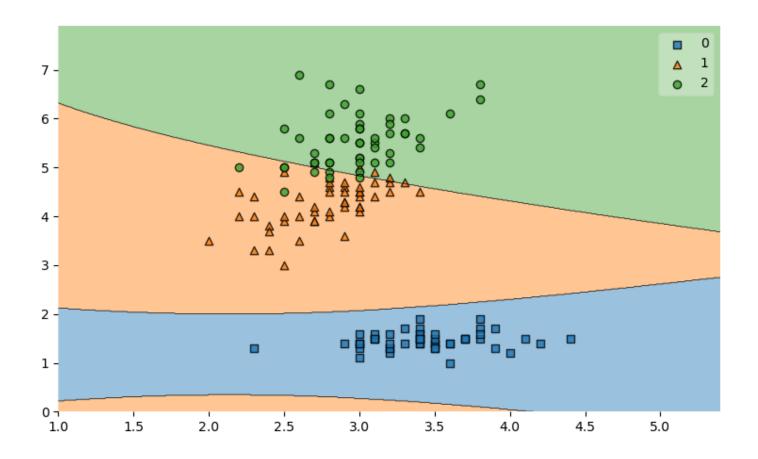
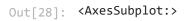
```
from sklearn.datasets import load_iris
In [23]:
          from sklearn.model selection import train test split
          from sklearn.naive bayes import GaussianNB
          %matplotlib notebook
In [24]:
          X, y = load_iris(return_X_y=True)
          X = X[:, 1:3]
          X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.5, random_state=42)
In [25]:
          gaussianNB = GaussianNB()
          gaussianNB.fit(X_train, y_train)
Out[25]: ▼ GaussianNB
         GaussianNB()
          y_pred = gaussianNB.predict(X_test)
In [26]:
          print(f'Number of mislabelled points = {(y_test != y_pred).sum()}/{X_test.shape[0]}')
In [27]:
         Number of mislabelled points = 5/75
          from mlxtend.plotting import plot_decision_regions
In [28]:
          plot_decision_regions(X, y, clf=gaussianNB)
```

6/16/22, 7:27 PM Bayesian Classifier





In []: