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        "import seaborn as sns"
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        "from sklearn.neural_network import MLPClassifier\n",
        "from sklearn.metrics import accuracy_score, confusion_matrix, roc_curve,\n        roc_auc_score, classification_report\n",
        "from sklearn.preprocessing import Normalizer, MinMaxScaler, StandardScaler,\n        RobustScaler, QuantileTransformer, LabelEncoder\n",
        "from sklearn.pipeline import Pipeline"
      ]
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```

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```

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" smoothness_mean compactness_mean concavity_mean concave points_mean
\\n",

```

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"0      0.11840      0.27760      0.3001      0.14710 \n",
"1      0.08474      0.07864      0.0869      0.07017 \n",
"2      0.10960      0.15990      0.1974      0.12790 \n",
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"\n",
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"breast_cancer.head()"
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"1   diagnosis             569 non-null   object \n",
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```

```

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" 8 concavity_mean        569 non-null float64\n",
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          "M   212\n",
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"area_mean    0\n",
"smoothness_mean 0\n",
"compactness_mean 0\n",
"concavity_mean 0\n",
"concave points_mean 0\n",
"symmetry_mean 0\n",
"fractal_dimension_mean 0\n",
"radius_se    0\n",
"texture_se    0\n",

```

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    "area_se          0\n",
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    "compactness_se    0\n",
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    "concave points_se  0\n",
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    "fractal_dimension_se  0\n",
    "radius_worst      0\n",
    "texture_worst     0\n",
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    "area_worst        0\n",
    "smoothness_worst  0\n",
    "compactness_worst 0\n",
    "concavity_worst   0\n",
    "concave points_worst 0\n",
    "symmetry_worst    0\n",
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        "Number of 0-entries for \"concave points_se\" feature: 13\n",
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      ]
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  ],
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    "for field in breast_cancer.columns:\n",
    "    amount = np.count_nonzero(breast_cancer[field] == 0)\n",
    "    \n",
    "    if amount > 0:\n",
    "        print('Number of 0-entries for \"{field_name}\" feature: {amount}'.format(\n",
    "            field_name=field,\n",
    "            amount=amount\n",
    "        ))"
  ]
},
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    "feature_names = breast_cancer.columns[2:-1]\"n\",
    "X = breast_cancer[feature_names]\"n\",
    "# \"diagnosis\" feature is our class which I wanna predict\"n\",
    "y = breast_cancer.diagnosis\"
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```

"# )\n",

"\n",

"# mlp_grid.fit(X, y)\n",

"\n",

"# # Best MLPClassifier parameters\n",

"# print(mlp_grid.best_params_)\n",

"# # Best score for MLPClassifier with best parameters\n",

"# print('\n\nBest F1 score for MLP: {:.2f}%'.format(mlp_grid.best_score_ * 100))\n",

"\n",

"# best_params = mlp_grid.best_params_"

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"  y,\n",

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"MLP AUC: 99.86%\n",
"MLP Classification report:\n",
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```

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")\n",
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"\n",
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"mlp_predict_proba = mlp.predict_proba(X_test_scaler)[:, 1]\n",
"\n",
"print('MLP Accuracy: {:.2f}%'.format(accuracy_score(y_test, mlp_predict) * 100))\n",
"print('MLP AUC: {:.2f}%'.format(roc_auc_score(y_test, mlp_predict_proba) * 100))\n",
"print('MLP Classification report:\n\n', classification_report(y_test, mlp_predict))\n",

```

```

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