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    "# SVM on an Artificially Generated Dataset\n",
    "# Paste this into Google Colab\n",
    "\n",
    "# 1. Import libraries\n",
    "import numpy as np\n",
    "import matplotlib.pyplot as plt\n",
    "from sklearn import svm\n",
    "from sklearn.model_selection import train_test_split\n",
    "from sklearn.metrics import accuracy_score, classification_report\n",
    "\n",
    "# 2. Generate synthetic data\n",
    "def generate_dataset(n_per_class=100, noise=0.5, random_state=42):\n",
    "   \"\"\"\n",
    "   Generates a 2-D synthetic dataset with two classes, partially overlapping.\n",
    "   \"\"\"\n",
    "   np.random.seed(random_state)\n",
    "   # Class 0: centered at (2,2)\n",
    "   X0 = np.random.randn(n_per_class, 2) * noise + np.array([2, 2])\n",
    "   y0 = np.zeros(n_per_class, dtype=int)\n",
    "   # Class 1: centered at (7,7)\n",
    "   X1 = np.random.randn(n_per_class, 2) * noise + np.array([7, 7])\n",
    "   y1 = np.ones(n_per_class, dtype=int)\n",
    "   # Combine\n",
    "   X = np.vstack((X0, X1))\n",
    "   y = np.concatenate((y0, y1))\n",
    "   return X, y\n",
    "\n",
    "# 3. Prepare data\n",
    "X, y = generate_dataset(n_per_class=200, noise=1.0, random_state=0)\n",
    "# Split into train/test\n",
    "X_train, X_test, y_train, y_test = train_test_split(\n",
    "   X, y, test_size=0.2, random_state=0\n",
    ")\n",
    "\n",
    "# 4. Train SVM classifier\n",
    "model = svm.SVC(kernel='rbf', C=1.0, gamma='scale') # you can change kernel to 'linear', 'poly', etc.\n",
    "model.fit(X_train, y_train)\n",
    "\n",
    "# 5. Predict & evaluate\n",

```
      "y_pred = model.predict(X_test)\n",
      "print(\"Accuracy:\", accuracy_score(y_test, y_pred))\n",
      "print(\"Classification report:\")\n",
      "print(classification_report(y_test, y_pred))\n",
      "\n",
      "# 6. Plot decision boundary\n",
      "def plot_decision_boundary(model, X, y, ax=None):\n",
      "    if ax is None:\n",
      "        fig, ax = plt.subplots(figsize=(8,6))\n",
      "    # define grid\n",
      "    x_min, x_max = X[:,0].min() - 1, X[:,0].max() + 1\n",
      "    y_min, y_max = X[:,1].min() - 1, X[:,1].max() + 1\n",
      "    xx, yy = np.meshgrid(\n",
      "        np.linspace(x_min, x_max, 200),\n",
      "        np.linspace(y_min, y_max, 200)\n",
      "    )\n",
      "    # predict on grid\n",
      "    Z = model.predict(np.c_[xx.ravel(), yy.ravel()])\n",
      "    Z = Z.reshape(xx.shape)\n",
      "    # plot contour + classes\n",
      "    ax.contourf(xx, yy, Z, alpha=0.3, cmap=plt.cm.coolwarm)\n",
      "    ax.scatter(X[:,0], X[:,1], c=y, s=40, edgecolors='k',
cmap=plt.cm.coolwarm)\n",
      "    ax.set_xlabel('Feature 1')\n",
      "    ax.set_ylabel('Feature 2')\n",
      "    ax.set_title(f\"SVM Decision Boundary (kernel={model.kernel})\")
\n",
      "    return ax\n",
      "\n",
      "plot_decision_boundary(model, X_train, y_train)\n",
      "plt.show()"
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}
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