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    "This report details the end-to-end development of a machine learning classifier aimed at
predicting customer churn for SyriaTel. The goal is to analyze usage patterns, service attributes,
and customer behaviors to forecast whether a customer is likely to stop using SyriaTel services.
Accurate predictions empower the business to intervene proactively by tailoring offers, support,
or incentives to retain valuable customers before they exit.'
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    "In today's highly competitive telecommunications market, customer retention plays a
critical role in sustaining profitability. Studies have shown that acquiring a new customer can
cost five to ten times more than retaining an existing one. For companies like SyriaTel,
minimizing customer churn, when users discontinue their service, is not just a technical challenge
but a strategic imperative.\n",
    "\n",
    "This project focuses on developing a machine learning-based churn prediction model to help
SyriaTel identify customers at high risk of leaving. By flagging potential churners early, the
company can implement targeted retention strategies, reduce revenue loss, and enhance customer
satisfaction."
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    "**General Objective**\n",
    "To build and test a predictive system that identifies customers likely to churn, thereby
```

```
supporting SyriaTel in making timely, data-driven retention decisions.\n",
    "**Specific Objectives**\n";
    "1. Develop a Binary Classification Model: Use customer data to classify users as likely to
churn (True) or not (False).\n",
    "\n",
    "2. Support Retention Planning: Leverage model outputs to inform and optimize proactive
customer retention strategies.\n",
    "\n",
    "3. Generate Business Insights: Analyze feature importance and model behavior to draw
actionable conclusions and recommedations that can influence service improvement and marketing
approaches."
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    "In this section, we import the essential Python libraries required for data analysis,
visualization, preprocessing, modeling, and evaluation.\n",
    "\n",
    "### Core Libraries:\n",
    "- **pandas**: Used for loading, manipulating, and analyzing structured data (e.g.,
DataFrames).\n"
    "- **numpy**: Provides support for numerical operations, especially array-based
computations.\n",
    "\n",
    "### Visualization:\n",
    "- **matplotlib.pyplot**: The foundational library for plotting charts and visualizations.\n",
    "- **seaborn**: Built on top of matplotlib, provides more sophisticated and attractive
statistical visualizations.\n",
    "\n",
    "### Machine Learning & Preprocessing (scikit-learn):\n",
    "- **train_test_split**: Splits the dataset into training and test subsets.\n",
    "- **LabelEncoder**: Converts categorical labels into numerical values.\n",
    "- **StandardScaler**: Standardizes features by removing the mean and scaling to unit
variance.\n",
    "- **RandomForestClassifier**: An ensemble learning algorithm based on decision trees for
classification tasks.\n",
    "- **classification_report**, **confusion_matrix**, **accuracy_score**: Tools to evaluate the
performance of classification models.\n"
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    "# Data manipulation\n",
    "import pandas as pd\n",
    "import numpy as np\n",
    "\n",
    "# Data visualization\n",
    "import matplotlib.pyplot as plt\n",
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"import seaborn as sns\n",
    "\n",
    "# Preprocessing and model selection\n",
    "from sklearn.model_selection import train_test_split\n",
    "from sklearn.preprocessing import LabelEncoder, StandardScaler\n",
    "# Machine learning algorithm\n",
    "from sklearn.ensemble import RandomForestClassifier\n",
    "# Evaluation metrics\n",
    "from sklearn.metrics import classification_report, confusion_matrix, accuracy score\n",
    "# Configure matplotlib for inline plotting in notebooks\n",
    "%matplotlib inline\n",
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    "# Set Seaborn style for better aesthetics\n",
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    "In this step, i loaded the dataset into a **Pandas DataFrame** from a CSV file and previewed
the first few records.\n",
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    "### This aided:\n",
    "- To **understand the structure** of the dataset (rows, columns).\n",
    "- To identify **key features**, column names, and possible data types.\n",
    "- To quickly spot any **obvious data quality issues**, such as missing values or inconsistent
formatting.\n",
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  "- Displays all column names, data types, and the number of non-null (non-missing) values.\n",
  "- Helped identify:\n",
    - Which features are categorical vs numerical.\n",
    - Potential missing data that may need cleaning.\n",
    - Overall shape and memory footprint of the DataFrame.\n",
  "### Statistical Summary: df.describe()\n",
  "- Generates descriptive statistics for numeric columns, such as:\n",
  " - Mean, standard deviation, minimum, maximum, and quartile values.\n",
  "- This was Useful for:\n",
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    - Informing scaling or normalization decisions before model training.\n",
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    "print(\"\\n Null values in each column:\")\n",
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                               \n",
    "# This code counts the total number of null (NaN or None) values across all columns\n",
    "total_nulls = df.isnull().values.sum()\n",
    "print(\"\\nTotal null values:\", total_nulls) "
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    "The initial output shows we have 3,333 entries and 20 columns. There are no null values,
which is excellent. Our target variable, churn, is of type bool (True/False). All feature names
are clear, we standardized the column formatting for consistency."
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    "A clean and well-prepared dataset is essential for building an accurate machine learning
model. In this phase, I:\n",
    "\n",
    "### 1. Standardized Column Names\n",
    "- Converted column names to snake_case for consistency and easier access.\n",
    "### 2. Drop Irrelevant or Non-Predictive Columns\n",
    "- Features like phone_number, state, and area_code are either unique identifiers or unlikely
to contribute meaningfully to the model's predictive power.\n",
```

```
"### 3. Convert Binary Categorical Variables\n",
"- Converted `\"yes\"\'\"no\"\ strings in international_plan and voice_mail_plan columns into binary integers (`1` for \"yes\", `0` for \"no\").\n",
    "\n",
    "### 4. Encode Target Variable\n",
    "- The target column churn was converted from boolean to integer format for compatibility with
machine learning algorithms.\n",
    "\n",
    "### 5. Visualize Class Balance\n",
    "- I Used a count plot to visualize whether the dataset is balanced across the target classes
(churned vs not churned).\n"
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       "<class 'pandas.core.frame.DataFrame'>\n",
       "RangeIndex: 3333 entries, 0 to 3332\n",
       "Data columns (total 3 columns):\n",
       " # Column
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                                    ----\n",
       " 0
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       " 1
             voice_mail_plan
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                                                     int64\n",
             churn
                                    3333 non-null
                                                      int32\n",
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    "import numpy as np\n",
    "import seaborn as sns\n",
    "import matplotlib.pyplot as plt\n",
    "from sklearn.preprocessing import LabelEncoder\n",
    "# Standardize column names to snake_case\n",
    "df.columns = df.columns.str.lower().str.replace(' ', ' ')\n",
    "# Drop irrelevant columns\n";
    "df.drop(['state', 'area code', 'phone number'], axis=1, inplace=True)\n",
    "# Convert binary categorical features to numerical (0/1)\n",
    "for col in ['international_plan', 'voice_mail_plan']:\n",
          if df[col].dtype == 'object':\n",
              df[col] = df[col].apply(lambda x: 1 if x.lower() == 'yes' else 0)\n",
    "\n",
    "# Convert target variable to integer\n",
    "df['churn'] = df['churn'].astype(int)\n",
    "# Confirm transformations\n",
    "print(\"Cleaned column names:\", df.columns.tolist())\n",
    "print(\"\\n Data types after conversion:\")\n",
    "print(df[['international_plan', 'voice_mail_plan', 'churn']].info())\n"
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dataset especially factors that influence customer churn. This step guides feature selection,
model design, and business decisions.\n",
    "\n",
    "I begun by analyzing the target variable (churn) and then examined how key features
interacted with churn behavior.\n",
    "\n",
    "### Analyzing the Target Variable: Churn\n",
    "\n",
    "Before diving into predictors, I examined the distribution of the target variable to
understand class balance.\n",
    "\n",
    "- **Why this matters:** A highly imbalanced dataset can mislead performance metrics like
accuracy.\n"
    "- **Goal:** To determine whether the number of churned vs. retained customers is balanced,
and quantify the churn rate.\n"
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high accuracy (~85.5%), but it would be useless in identifying actual churners.\n",
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accuracy alone:\n",
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the standard of taNerZbRYGJjiYO3UQJ4wfQERogBej7H6GYTBlRAKVNU2UVTWwZEMePz5jOLYgfTaK9FXh4eEtd94d8Nlnn7Fnzx5OO0EEHn74Y YYNaz2HaHx8PAB5eXkUFBQAkJSUdFiZ/Pz8TsdlmiZ1dXWdXt/X1dfXt/rfX2i/u36/7fYACkurWbw+H5fbJC4ykFljEjHw4HR 621zH6XS2e/vHU/bA721toyPbPd44JqXH4nJ7Wubk02FsIvFRQdBNnzM6z7Xf/qAr9ts0zXbP+60GPhGRTjJNk4y9FazbWYzbY 2K3WRg/NI7f/mgiYSG9r7Jn3NA4HvntH057aRU79pSzZF0uk4bHM7SXNFSK+DsNIyUiXcU0TXKLa9iRU05R+XcXpg6bhckjEzh hbAqj0sLI2r2LESNSCA7u2417B1itFk4Yn8x/l+dQUd3Iv97eyE2XTmr3xbeI9G5r1qzhT3/6E6eccgpz587lvvvu06wDVEBA8 +dhY2NjS8VeW2UqKys7HYfT6WTbtm2dXr+3yM709nYIXqH97jqhMaksXp+Hyw0RwVbSk22U15cedZ3i4uJ2b78ry1ZUVBzXdrs ijkFxBg0NVkqr3XyzIZ+xaUG4Pend+jmj89y/aL87p72drNXAJyLSCU6Xh5VbC9izf86ZxJhgpo5KJCTQjsXSeyt5YiKCuP2qa dzxzDIycytZvb2Imnon44fFqfJKxMf58jBS3dXT3F97BHaUj1P7+duxcjgCD+vJXVhWz6bMUipqmoDmeWOSYoK5eN5wxg2OIDC g+TPkWMeqrW0fTU/2Vj+e8g4rTB8Vz+L1+SxZn0tqYjBnz0o76vb87bzqLB2n9vPFY9WRnua90cKFC/n973/PuHHje0ihhwAID 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Xv+zma1cOKEFBat3UdJRT23P72M+345i9SkcG+HJiJH4dUGPs0VIyK9SV5xDe98tYsmp4eosABOnNCP4ECv95PoVoNSIrBZLSz blNcyHOmMMUm6k0/Ex/nSMFLQ/T3N/bVHYEfpOLWfvxyrJqebbTmVbNndPB9NZGgA08ckEhV2+N1ohmHw1sKdLb87nU6Ki4uJi 4trszf4RacO67Ze8B0t313bvva8EewtqiFjbwUPv7GJv19/AoGOI+eG/nJeHS8dp/bzpWPVV0YzOVhWVhZ//etfmTdvHtdccw2 lpd/N3RUYGMj555/Pc889x6233srPfvYzNm7cyMsvv8xdd90FNHeauvTSS3nggQeIjo4mJSWF+++/n8TERObNm+et3RLps0zT5 NE31rFjTzmhQXb+f0U0lm0+vpFI/I3dZuGkiSms31lCxr4Kbnv6W/523QmkxIV6OzQROYJjDz7chn/961/HPVQTHHuumNWrV7c 5V0xWVhalpaVs3779qHPFiIh0lbziGpasz6PJ6SEpNoRTpgzo8417BwxID00E8S1YDNhTUM3KLQWYpuntsET61K7KraB5GKnrr 7+eE088kWeffbalse5Yw0gdGJqzrTKJiYldEpuI+I5Gp5uHXl/b0riXnhrFadMHtNm4J21z2K386fKpRIQ62J1XyT/fWq8cScQ HdFVe9d///hen08mCBQs44YQTWj3uvfdeYmJie06558jKyuLcc8/18ccf5+abb+bcc89t2cavf/1rLrjgAm677TZ+9KMfYbVae f755zXilEg3eHPhTpasz8VqMfjTT6fSLyHM2yH1SnablduvmsbA5HAqqhu57cmlFJZ1/XzqItI10lU7/fLLL/0vf/2Lad0mcd5 553Haaae1DPHUEb46V4xpmtTVdf0Hly90h01N0h6t6Xi01tPHw8SK0+ls87n80jqWbSrAY8KUkQn0jwsG043T6W57W6anXZ8hR 3vNQ7fXcIzj0ZFtHSu2trYVHxnA1JHxLN9SRFZeFVYLnDN7IHV1x37N7qD3S2s6Hq2153iYpulTPc27KrfSMFIi0h6NTjf3vLC C9TuLsRgwZWQig1IivB1WrxQXFcQtP5nC7U99y+J1ufSLD+NHp6V7OywRv9ZVedW1117Ltddee9QyY8e05c033zzi81arlZtuu ombbrqpw68vIu23dGMer32+HYBfnD+WMUNicbo8Xo6q9woLdvCXn8/kT09+w97CGm59cil//9UJxET4xrDQIvKdTjXwffPNNyx cuJD333+fP/zhD9x1112ceeaZnHvuuUyYMOHYGzgCX5krxul0sm3btk6vfyy+NhG2t+l4tKbj0VpPHY+0QUMpLi4+bHlVnZsNW XV4TIgNt/GrC8bywrvLj7qtxsZUsnfv6vRrtrm9/cfhSMejQ9s6RmxH2laAAcP7BbJ9XwMZ+6r44OsMRiQ0HvM1u5PeL63peLR 2rOPhSz2nuyK30jBSItIejU439+5v3At0WJk5NpmEaN8Y4q+3GjM4lmvOG8sTb2/g9f9uJyE6iLmTB3g7LBG/1V11ViLimzL3V fDQ62sBOGf2IE6fnubdgPqIyLAA7r5mJn/811LyS2u59clvue+6WRrtQcTHdKqBz+FwcOaZZ3LmmWdSVFTEhx9+yGeffcb8+fN JS0vjvPP047zzziMmJqbd2/SluWLsdjtDhgzp9PpH4osTYXuTjkdrOh6t9fTx8GAlLi6u1bLqOifLduTiMSExOoiZYxKx222Hl TtUQEAAI0aM6NRrHml7aWlpRz0eHdnWsWI72rbi4sARUMHGzDLe/CKTX184mlljk9os2530fmlNx6019hyPjIyMHo7q6Loitzp 4GKkFCxa0eu7cc8/lb3/7G8899xz33nsv5557LnFxcW0OI+VyubjttttoaGhgypQpGkZKpA9xuz38/ZVVrNvfuHfbldNahuiU4 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yAh1Wpo5KbJmEXTrnhHEpnDypHx4THn5jLY103Zkn0h7KrUSkq+QUVLOvqAaLATPHJGHTs0M+Y9zQ007++UxCguxsyy7j1ieWU 17d402wRPoc5VUifUdDo4v7XlpFbYOLEWnR/PSsUd4OSdowc2wyv79kEhYD/rcih6fe24hpqpFPpCfYOrPSL37xC66++mr00+8 85s2bR0xMDGV1ZXzxxRds2bKFp556qqvjFBHpcoV1dbzy6TYAfnzGcOoaNFRSV7jm3LFszCghv6SWN/63gwvmamJrkWNRbiUiXapproximately and the standard properties of the standaraG8uoE12wsBGDUohqhwDV/la0YMjOa+X87iz88sY3deJX94/BvuvnYm8VHB3g5NpM9QXiXSN5imyePzN5CdX0VkWAC3/GQydps 6Lvmq2RNScHk8PPyftXz2bTZ2q4Wf/WC00tKLdLNOfSrOmjWLJ598EsMweOyxx/jzn//Mo48+itvt5oknnuDEE0/s6jhFRLqUa Zo89e5GGpvcjB4cwymTB3g7pD4jJMjOL84bC8C7izLIya/yckQivk+5lYgcL9M0efrdTTQ5PUSFBTByYIy3Q5IjGJgcwd+v04H 4qCDySmq55Z9LyClQviTSVZRXifQuQ4cNx24PwOnytHp8sDiTr9ftw2IxuPGSSYSHBAC6K8yXnTypP7++aDwAHy7ZzYsfb9Wdf CLdrFN38AHMmTOHOXPm0NjYSEVFBWFhYQQHq9ehiPQO327MZ/W2QmxWg1+ePw6LRT2KutK00UnMGpvM0o15PPP+JiaPTMCiXls iR6XcSkSOx+J1uazYUoBhwLTRicptfFxyXCh//9Vs/vzMt+wtrOGWx7/h1iumMmZwrLdDE+kTlFeJ9B4Oh53X/7sVu93esqy4v I4vVu8FYNzQWLZmlbI1q5QLT9EIQb7GNE2cLk/L73Mm9qfR6eGpdzfy3qIMLAZccvpwDMPAbg9g6LDhXoxWpO/pdAMfQGV1JfX 19Xg8HioqKqioqGh5Ljk5+XhjExHpFnUNTp55fxMA588dSv+EMGrrnV6Oqu/5+bljWL+ziMzcSsJDHQxPjfZ2SCI+T7mViHRGe XUDT7+3EYDRg2KICtPQnL1BbGQQf//Vb05+fgXbssv489PL+N01E5k9PsXboYn0CcqrRHqn+kYX32zIwzRhQGIY6Q0ivB2SHIV hwPwvdh62fNLweNZsL+KdrzLYuaec@YNjcTqd/HBeOh63psgR6SqdauDLzs7mD3/4Axs2bDhimW3btnU6KBGR7vTqZ9soq2ogK TaEi04Z5u1w+qzo8ECu0HsUj8/fwKaMEvrFhxEaZD/2iiJ+SLmViHSWaZo8+c5GquucDEw019CcvUxYsI07r53Jg6+tYdmmf07 /92rKqxo458TB3g5NpNdSXiXSe7k9Jt9syK0hyU1EqINpIxM1h1svNWxAFB7TZN2OYjZ11mIYBsP6h3s7LJE+p1MNfHfffTfZ2 dn86le/IjExEYtFE5yKSO+wc085nyzNAuCX54/FYbd6OaK+bd7UVL5YtZdt2WWs3lrInIkpSs5F2qDcSkQ665v1eSzblI/VYnD 9ReNZtbXQ2yFJBwXYrdzykyk8+/4mPlmaxbMfbKaksoGfnjVSQ62KdILyKpHea/30Ikoq6rHbLMwel4LNpvdvbzY8NRqPx2TDr hI2ZpSA6Tn2SiLSIZ1q4Fu9ejX33nsv3//+97s6HhGRbuN2e/jX2xswTZgzoR/jh8V706Q+z2IxuPoHo/n9P5eQX1rLnoJqUpP UY0vkUMqtRKQzKmsaeWr/0JwXnTqMgckRauDrpawWg2vOHUNsZBAvf7KV9xZ1UFpRzw0/moDdpg5pIh2hvEqkd8r0r2LnngoAp 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the control of tXsrY7T3cNSru+tqkmdzW4zu744Nv17Flj+uwaW+Bbxbqr/eHxGpp1JXlLds2YKePXti3rx56Nix43M/yDw9PfHpp59WJT4i0hE FcgVOXniI7LxCmJtI0a2tM4wNDf4rkaku3pIPAA0dzPHNhx0x8/t/kZ5VgOPnH6C7b0OYGKlf95yIahfmVkS134+HriPydiIMZ RJ80bI9LEx5cbc6icUiTBjUBnKFEicjYrF4+3nMGtkevm4O2g6NiKqZpvIqVp0ioqcVyBX450IscvMLYWEqQ5c2TpCINV/RqjZ 5rXNT3I1Nx4nwh1j8YzhWTA6Eg3XtX5ONqCZVaoDv33//Rb169ZCYmKhK1NLT0xEXF1dioeCePXtqJkoi0qpChRKnLj5Ce1YBj GQSdGvrDCNDgwqV0QT0p5RmTWjoYI4efo1wIvwhMnPkOBb2EN19nWFmwot9RHURcyui2u3M5cfY/3c0AOCTt33QuL6F1i0qGyR iET59xwfyQiXOXHqMBVvD8OWo9mjraq/t0IioGjGvIiJNUygF/Bv5GOlZBTA2LLouxopW5ROJRBg/0BsPnmQi+mEa5m85h+8md oGRjFWsiDS1UtMMxGIxRo4ciWHDhqkeu3TpEt544w2MHz8eubm5GguQiLRLqRRw9nIcEtNyITUQo1s7DkJpirmJDD39GsHMRIr sPDmOnX+I9Kx8bYdFRFrA3Iqo9noQn4FVuy8AAN4IbIYuPlwLrjoIggB5obLUj1IAPnnHB/7ujpAXKjF/8zlcvJmg7XCJqBoxr yIiTRIEAWHX4pGQmgMDiQhdfZxhaswKTOoylErwxfv+sDQzRMzjDKzZEwlBYIUvIk2p1ADfkiVLcPv2bUyZMkX1WEBAAIKDg3H 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IyynFn8dScehsOlKzSnE8IRvHE7KxUixCdJg3+oW3gcEg8Ap0IiIiotuk55TiP+sOIy2nDLY2Erz+RE/06uIDrU5v6dCIrI6Dn RzDegfgwKk05BSU49s/c2HvlIaRAzpbOjQiogYxGASotXoo5BKIROxTISKilosFvlbKYBDwyX9PoLhMg/ZtnDBxZJilQ2p1/Dw dMP6+UIy/LxSpWSU4dDYdh85k4FpaEQ6fy8Thc5lwsJUhpJ0b2rdxglTCSe+JiIiIT1/JwQcb41FaroWnqy3efro32rdxtnRYR FbNRibB4B7+yMgtw4FT6Vi9/QLS8lR4+v4uPA8hIqug1urx2+Fk/HU8DXlF5dAbBEjEIjjayxHo44gBkRyCmIiIWh4W+Fqpn/Z fxcnLOZDLJHj9iR6QSSWWDqlVa+vtiEe8g/HI0GCkZBbjj6PX8Uf8dZQqtTh2MQsXruUhIsgTgT6OvPqMiIiIWq3f4pKxetsZ6 A0CggNdMWdSLw4xT2QmErEYrzwSCbGuBPvOleDnA9dwLa0Isyf0hKsT32dE1DwJgoBDZzOw/ufzyM5XV1qnNwgoLFGjsESNWcv /xhP3hmBkv/bsVyEiohaDBb5WKCE5Hxt/uQAAeOaBrgjwcbJwRHSrQB8nTB7dFQ8M7IAVW0/jYnI+lCod4s5m4HJKAaJCvODpY mvpMImIiIiahFanh1qrx5rt57D3WCoAYEBkG7z0UATkMkmlYTkFwVJRErUMIpEIg8OdER3eASu3ncf5a3mYvvQvvPFUL4S0c7N @eERElej1Bnyx/Sx+PZQMAHB1tEEHP2d4u9nBwU4GZbkOOYX1OJ+Uh1K1Fp//eBYJyQWY+kgkbGS80J2IiKwfC3ytTFGpGh9+F Q+9QUC/iDa4NybQ0iFRDRRyKYICXNHBzxmXUgpwISkPecUq/HH00gJ8HBHZ2dPSIRIRERE1usy8Mry56hAKS9QQAQjv7AE/Twf 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Env XIggamx SiRid 2 rqg U1s Xj Ly5TKv TIz G1EDs OXENRm Qb Fp Wo U121 Qot RApxeg 0 Rqg 0 apx 6 n J Og 59 XIhb B 0 V 4 OZ 3 s 5 3 apx 6 n J Og 50 XI ApxJwVCGvnhi4dPRo8Xr2JSIwf/7oCmazmKw5HD+gAsC+BiKhZ6dQ5GFKZvMoQkDXhEEW1U6r12HcyHSev5ON4QhY02n+Keg52MgR 40yLAxxEuDjYQiUQ4eiELRy9k8a48IrorYrEIf140ePieztDqDDh5KQdxZzNw7GImCkvU+N+RFPzvSApEIqCTvwsigzwR0ckTn QNczDoHGBHVjZ1ChpceikCfbr5Y9cNpZ0YpsXBjPMLau+Gx4cGI60x5xyJNcZkGG34+jz/irwMAOvk7453JMWa/q+1uOdjKMP/ ZPvhk80kc0JWGb3Y14PDZDEy4LwyRQZ7VFuq00g00nM/Apt8TkJpVCgDo60+MVx6JMttcfrXpHuKFpTNi8f6XR5GUXoy3Pz+Ec YM74417QxpldCWVRocDJ9OwKy4ZV1ILK63zcDFe4G2nkMJGLoUgCNDrBdjbypBToMT1rBKkZBp/tu+7igAfR9zXpx2GRgdAwXm ciYjuiJ+SzdSN7BKs+uEMziTmAgDaejtg+qPdERTgauHIiGomk0rQ1tvR+HPLckEQoNUZoFTpoFTrEBzgApVGD5VGD7VGD5VGB 7VGD410D510gFZnXJddoITBIEBvEKDW6KHW6qE3CCgsUaOwRI2UzBKcvJQDmVSMTv4uCGnnhrD2bght5wZnBxuLvQ5ERNR0ZDI Z/vv7xTteoFHh4XtYgKpJZ14ZDp/LRNyZNFxMKYAgZJjWOdjKEODjiABvR7g42vCKaiJqdHYKGfpFtEG/iDbQ6gw4ezUXxy9m4 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    "- **Distribution of account length**: appears approximately normal, suggesting that the data
is symmetrically distributed around the mean. Majority of the customers have an average account
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"- **Distribution of number voicemail messages**: is highly right-skewed with a large number

life span.\n",

of customers having 0 voicemail messages. Most customers don't use the voicemail service. A few have a higher number of messages, but they are rare.\n",

- "- **Distribution of total minutes** appear to follow a roughly normal distribution, centered around the mean. Majority of customers use a moderate number of total minutes, with fewer using extremely low or high total minutes.\n",
- "- **Distribution of total calls** is also normal, suggesting a balanced call usage pattern. Most customers make an average number of calls, with fewer customers making an extremely low or high number of calls.\n",
- "- **Distribution of total charge** mirrors the distribution of total minutes, as charges are directly proportional to the minutes used. The spread indicates that customers have varied levels of charges, but most fall within the central range.\n",
- "- **Distribution of customer service calls** is right-skewed, with most customers making 0 to 1 customer service calls. There are a few spikes at higher values. Most customers rarely contact customer service. However, customers who call frequently (especially with 4 or more calls) might indicate dissatisfaction, which could correlate with churn."

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P1hrGH \lor D3UnHrfu7nhmXcK+F75P8LMQJExWWRpc \lor G190GyF2+T85gjGHR5hd1hmdqfdyVxrs/hr8NZRzsFDQKUnPjnpawGNN1 + Calculation of the property of t$ jUWWjICW1+OdXREymPpfe+XOprwss5eV+lOHcUXEzTy4N+b8XkUl6ZjYx8VqzfeTipMTRQVmifFtDHiH3uNQPDpd7EWzMSyH1k K+nilthuZ8bBtvNWw+1Crbnub7uhMdo+XJ5bKnqIWs4d8pzHn89EM/Rs6Y/BFqE0NOojmPOndTc6QE+apPB8PK7F5HBYxXNByg M8FFz5Zb+2f6aVezx9VJx8ITpOq/eSqNDC1dcnW0KfSzBmMt8+9twvlvad3m/G2+F5T2/zb8bS8va8gj68Q2ydNnGesfAt5B6K DxnzBtfDxuTesjXQ5/L+zn1UOMgW67f15otw8ZGQXIhP4DNYjSeO6bXQrnnqoVzJ099nvfc8bNQplWwA8/3dycsRsuXS2NKNfB kec7jbwcT0Hb0tMdCi2BnGlo4Lv19bAs9Lu9HZFCtkvlx6e+j5sqt3HrN0V7Juy9UIKiaPUs2RrF1T3yRcRp4+lRGqbQhNuK2y fSYnL99KlS3VIzs7Gx+WfkJh3evon7zbvR/7nNjwwSAp28lFAol2kzz7dNlaeU1ov+PSTPOA6pVqxbJyclkZGRQpUoV479Fixa ZjO1QUvv37+f8+f0sWLGCV155hR49euDs7ExMTIzxR7eigC5WhrgAjh83HUX32LFj1KhR46HFUBrx8fHcvp1byV25coWkpCTq1 q1rNu93333HgAED+Pzzzxk+fDjNmjXjzp07wMNvfChKphZCb2UYBzYzaFbPnhSNjut3zS/AImOziIzV0ix/mbr2hEVriUnQf5E 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A substitution of the subst$ $\label{lem:mprk2a6PzXp+kc5H0zMTyfDM42at0wCyzg5KHKmmR8nmnRdiStl4zrTC15nfo4FxJCW87eDnf7zrCzzi4vSyoxLIO1eRLHnV7vInterval and the control of th$ rn43UJpoO4KRN0n/ZqVydjeNW5J/HMJ/KteDnn/NTueSsL910WVmp+h9CNhZ6QSUcO47mzh0ee/MN3Jo3x8bJCddGjag66VWys 7KwcXBA7eEBQNVXX8HO14fQaW9z5cMZOAXVov7ihSgdStZTxsDJQWnxGEpLz8bRwj431rNXmh3T+nK5x56TvZJUi/PojynHYh6 jjg6W16VJyy50GU4OS1LTzB+Z0qRnmxzP9yMzzS6cSqq859HRPudczbectAzD+W1+IWIsU1CdYG/54sXP04YhXV25cS+TM1dKP sCbYwG51KTrCs91AcdJWr768EH2t7Xk0Rrq89y8FJRLC9+NBXyfphWyXQB+XjYM7ebKjXsZnL5c/FxaQx7zx1te6yFrymV5zmN ejg42lr8bi7gG1H83lvw7dXRfbyr42hb4uIglzk4qUjXmj2SkarJwcii8R1hBjRLGZTurSE61vGwAR0cZheD/E2mcKIHmzZtTq VIltm3bZpy2bds2evfuzY8//khQUBDvvfceNWrUoEWLFsyePZtz586xf/9+s2UtX76c40Bgpk2bRvXq1WnTpg0zZszA19eXW7d usX37dj755BNatmxJ1apVGTNmDD179uSHH34oUczt2rVj0KBBVKpUiZEjR6LVahkxYgQtW7akQYMGdO/encuX9c9yZWRkMHHiR N544w2qVKlC9erVef7558nIyODmzZsPlLu8pk2bRvv27QkKCmLWrFmkpKTwyy+/mM1nY2PDu+++y9ixY6lUqRK1a9dm5MiRxMT 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$\label{lem:hhlh6cwpvzffZ7t780LQ3zRZmVz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmVz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmVz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmVz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmVz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmVz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQKBwcvJjD98wsk5Rlabel{lem:hhlh6cwpvzffZ7t780LQ3zRZmvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQkwcvJjD98wsk5-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n55n4rjqvDTmMRQkwcvJjD98wsk5-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4r/u0s7n50-lem:hhlh6cwpvz+liqSzZFG+NsGaIfp6trGze6tnEzw2+/V4$ 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redundant information.\n",
    "- Variables showing significant differences in correlations (positive or negative) with the
target (churn) might be more predictive.\n",
    "- Features with minimal correlation (close to 0) might have limited relevance to predictive
modeling unless their relationship with the target (churn) is non-linear."
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Random Forest algorithm, the model learns from historical data to identify patterns that
distinguish churned customers from retained ones. The dataset was first split into training and
testing subsets, followed by feature scaling to standardize input values. Once prepared, the model
was trained on the training data and later evaluated on the test set to assess its predictive
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    "Features (X): All columns except churn,\n",
    "Target (y): The churn column, which we are trying to predict."
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    "X = df.drop('churn', axis=1)\n",
    y = df['churn']\n"
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    "\n",
    "We split the dataset into:\n",
    "Training set (70%): Used to train the model.\n",
    "Testing set (30%): Used to evaluate how well the model performs on unseen data,n,
    "A fixed random_state ensures reproducibility."
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    "# Split data into training and testing sets (70/30 split)\n",
    "X_train, X_test, y_train, y_test = train_test_split(\n",
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    "**Step 3: Feature Scaling (Standardization)**\n",
    "Standardizing the features ensures that each one contributes equally to the model. It
transforms the data to have:\n",
    "\n",
    "A mean of 0\n",
    "\n",
    "A standard deviation of 1\n",
    "\n",
    "This step is especially important for algorithms sensitive to feature magnitude."
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    "from sklearn.preprocessing import StandardScaler\n",
    "# Initialize and apply standard scaler\n",
    "scaler = StandardScaler()\n",
    "X train = scaler.fit transform(X train) # Fit on train, transform train\n",
    "X_test = scaler.transform(X_test)
                                              # Transform test only\n"
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    "**Step 4: Building the Model (Random Forest)**\n",
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scikit-learn.org. See: https://github.com/scikit-learn/scikit-learn/issues/21755 */display:
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    "from sklearn.ensemble import RandomForestClassifier\n",
    "# Initialize and train the Random Forest model\n",
    "model = RandomForestClassifier(n_estimators=100, random_state=42)\n",
    "model.fit(X_train, y_train)\n"
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    "**Step 5: Encoding Categorical Features**\n",
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    "Before training I converted categorical columns such as \"international plan and Voice
Plan\" into numeric format using Label Encoding, as most machine learning models do not accept
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    "from sklearn.preprocessing import LabelEncoder\n",
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    "# Encode categorical features\n",
    "df['international_plan'] = LabelEncoder().fit_transform(df['international_plan'])\n",
    "df['voice_mail_plan'] = LabelEncoder().fit_transform(df['voice_mail_plan'])\n"
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    "# Predict churn on test data\n",
    "y pred = model.predict(X test)\n"
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    "**Step 7: Model Evaluation**\n",
    "I evaluated the model performance using multiple metrics:\n",
    "Accuracy Score: Overall correct predictions.\n",
    "\n",
```

```
"Confusion Matrix: Breakdown of actual vs. predicted.\n",
    "Classification Report: Precision, recall, F1-score.\n",
    "These metrics are essential, especially since churn is an imbalanced problem."
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                      precision
                                   recall f1-score
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                                                         857\n",
      11
                  0
                          0.95
                                    0.99
                                              0.97
      11
                          0.94
                                                         143\n",
                  1
                                    0.71
                                              0.81
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                                              0.95
                                                        1000\n",
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                                                        1000\n",
                          0.95
                                    0.85
                                              0 89
         macro avg
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                                              0.95
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              6]\n",
     " [ 42 101]]\n",
     "Accuracy Score: 0.952\n"
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    "from sklearn.metrics import classification_report, confusion_matrix, accuracy_score\n",
    "# Print evaluation metrics\n",
    "print(\"Classification Report:\\n\", classification_report(y_test, y_pred))\n",
    "print(\"Confusion Matrix:\\n\", confusion_matrix(y_test, y_pred))\n",
    "print(\"Accuracy Score:\", accuracy_score(y_test, y_pred))\n"
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    "# Interpretation of the model's evaluation output:\n",
    "**Classification Report**\n",
    " | Class | Precision | Recall | F1-score | Support |\n",
    "|-----|----|\n",
    " 0 (Not Churn) | 0.95 | 0.99 | 0.97 | 857 |\n",
    "| 1 (Churn)
                     | 0.94 | 0.71 | 0.81 | 143 |\n",
    "\n",
    "- **Precision**: Out of all customers predicted as churners, 94% were actually churners. For
non-churners, 95% were correctly identified.\n",
    "- **Recall**: The model correctly identified 99% of non-churners, but only 71% of actual
churners. This means some churners were missed (false negatives).\n",
    "- **F1-score**: The balance between precision and recall. Higher for non-churners (0.97) than
churners (0.81).\n",
    "- **Support**: There are 857 non-churners and 143 churners in the test set.\n",
    "**Confusion Matrix**\n",
   "```\n",
    "[[851 6]\n",
   "[42 101]]\n",
       `\n",
```

```
"- **851** true negatives: non-churners correctly predicted.\n",
    "- **101** true positives: churners correctly predicted.\n",
    "- **6** false positives: non-churners incorrectly predicted as churners.\n",
    "- **42** false negatives: churners missed by the model.\n",
    "\n",
    "**Accuracy**\n",
    "- **0.952** (95.2%): The model correctly predicted 952 out of 1000 cases.\n",
    "\n",
    "**Model Performance Summary**\n",
    "- The model is very good at identifying non-churners (class 0).\n",
    "- It is fairly good at identifying churners (class 1), but misses some (recall for churners
is 0.71).\n",
    "- Overall accuracy is high (95.2%).\n",
    "- For business: The model is reliable for flagging customers likely to stay, but some
churners may not be detected. Consider improving recall for churners if reducing churn is a top
priority."
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    "***The project set out to accomplish the below objectives:***\n",
    " 1. Develop a Binary Classification Model/an accurate churn-detection (using Randmodelom
Forest): Use customer data to classify users as likely to churn (True) or not (False).\n",
    "2. Support Retention Planning: Leverage model outputs to inform and optimize proactive
customer retention strategies such as targeted offers, service upgrades, or personalized
communications.\n",
    "\n",
    "3. Generate Business Insights: Analyze feature importance and model behavior to draw
actionable conclusions and recommedations that can influence service improvement and marketing
approaches.\n",
   "\n",
    "\n",
    "**Summary Results**\n",
    "The Random Forest model delivered strong predictive performance, with its classification
report clearly showing how effectively it distinguishes between customers who will churn and those
who will stay. This insight enables SyriaTel to act proactively by maybe offering tailored
incentives, upgrading service quality, or launching personalized engagement campaigns for
customers at high risk of leaving.\n",
    "\n",
    "\n",
    "**Conclusion & Recommendations**\n",
    "The Random Forest classifier not only achieves strong accuracy but also provides actionable
intelligence. By identifying high-risk customers, SyriaTel can intervene early by minimizing churn
through focused incentives, service improvements, and personalized engagement strategies.\n",
    "\n",
    "\n",
    "After a customer cancels, send a short exit survey (just a few quick questions) or follow up
with phone interviews for key customers. This lets you understand why they left for instance
whether it's price, service, billing, or something else and use those insights to improve your
retention model and service offerings.\n",
    "Then, review patterns in why people churn and tweak your messaging, onboarding, or support
accordingly. Focus especially on customers flagged as high-risk, update how you communicate with
them, what you offer, and how you help them so that future campaigns will focus on keeping more
people from leaving and locking them in.\n"
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