**SYSTEM REQUIREMENTS**

**HARDWARE REQUIREMENTS:**

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| **Component** | **Specification** |
| **System** | Intel Core i5 / i7 Processor (or equivalent) |
| **Hard Disk** | Minimum 500 GB |
| **Monitor** | 15” LED or higher |
| **Input Devices** | Standard Keyboard and Optical Mouse |
| **RAM** | Minimum 8 GB (Recommended 16 GB for model training) |
| **GPU (Optional)** | NVIDIA GPU (for faster model training) |

**SOFTWARE REQUIREMENTS:**

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| **Component** | **Specification** |
| **Operating System** | Windows 10 / 11, Ubuntu 20.04 or higher |
| **Programming Language** | Python 3.10.9 |
| **Web Framework** | Flask |
| **Libraries & Packages** | NumPy, Pandas, Scikit-learn, XGBoost, Matplotlib, Seaborn, Imbalanced-learn, Joblib |
| **IDE / Editor** | Visual Studio Code / Jupyter Notebook / PyCharm |
| **Database (Optional)** | SQLite or CSV-based data storage |
| **Browser** | Chrome / Edge / Firefox for web interface testing |