

System Requirements

Hardware:

Computing Power:

- Minimum: Intel i5 / AMD Ryzen 5 processor
- Recommended: Intel i7/i9 or AMD Ryzen 7/9 for faster model training

Memory (RAM):

- Minimum: 8GB RAM
- Recommended: 16GB or higher for handling large datasets

Storage:

- Minimum: 256GB SSD
- Recommended: 512GB SSD / 1TB HDD (to store raw and processed data efficiently)

Software:

Operating System:

- Windows 10 / 11, Ubuntu Linux, macOS

Programming Language:

- Python (primary language for data processing and ML model implementation)

Libraries & Frameworks:

- **Data Handling:** pandas, numpy
- **Visualization:** matplotlib, seaborn, plotly
- **Machine Learning:** scikit-learn, TensorFlow, PyTorch
- **Geo-Spatial Analysis:** folium (for accident hotspot mapping)