**Tools Used**

This document lists the tools, libraries, frameworks, and development tools used in the project.

**Programming Language**

* **Python**: A versatile programming language widely used in data science and machine learning.

**Libraries and Frameworks**

* **Matplotlib**: A plotting library for creating static, animated, and interactive visualizations.
* **NumPy**: A library for numerical computations, providing support for arrays, matrices, and mathematical functions.
* **Pandas**: A library for data manipulation and analysis, particularly for structured data.
* **Scikit-learn**: A machine learning library providing algorithms and tools for classification, regression, clustering, and more.
* **Seaborn**: A visualization library built on Matplotlib, providing a high-level interface for creating attractive statistical graphics.
* **Streamlit**: A framework for building interactive web applications with Python, ideal for data science and machine learning projects.

**Development Tools**

* **Jupyter Notebook**: An interactive computing environment for creating and sharing documents with live code, equations, visualizations, and narrative text.
* **Visual Studio Code**: A lightweight, open-source code editor with support for Python and other languages.