| Tool | Usage |
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| Python | Simple coding language used for the base of some of the best data plotting tools. |
| Pandas | The primary tools for data manipulation with Python. |
| Seaborn | Used to plot the data created using Pandas. |
| Matplotlib | Used to style the plot using Seaborn. |
| JavaScript | Can be used for both the front and back end of the site. |
| ExpressJS | Used to build the backend of the web application, with good implementation of API, middleware, and request. |
| NodeJS | Allows for flexible and scalable applications and works well with data heavy infrastructure. |
| ReactJS | Great at building front ends for dynamic applications such as the client requests. |
| MongoDB | NoSQL allows for a flexible schema of the user data, which is ideal for web infrastructure. |
| AWS | Cloud platform with a large amount of services, giving the client a one shop stop for their web deployment. |
| AWS Lambda | Only charges the client for each request the site receives. |
| AWS API Gateway | Allows the development of different path on the site as requested by the client. |
| AWS Redshift |  |

|  | Python | Exel |
| --- | --- | --- |
| Flexibility | As a vast array of free addons such as numpy, pandas, and seaborn. | Limited to the tools in the software provided by Microsoft suite. |
| Automation | Can custom and default formulas and functions to manipulate the data automatically. | Able to create custom and default formulas to manipulate the data automatically. |
| Connectivity | Can be implemented into servers to respond to requests. | Cannot be implemented into servers to respond to requests. |
| Maintenance | Requires a specialised python data engineer if maintenance is needed. | Easier maintenance, dependent on Microsoft suite of updates. |
| Scalability | Can work on and manipulate large Data sets | Has limitations on the amount of data the software can work on. |
| Style | As large open source libraries of graphs and plots types and styles. | Limited to the software library to customise the graphs and plots |