

Phase 2: Individual Work Report

Group - 2

Divya Panchal, Dhvanil Bhagat, Chetas Parekh

Report – 1

Divya Panchal - SFSU ID : 924317352

Hello, my name is Divya Panchal, and I am from Group 2. My role in this project involves cleaning and data preprocessing. This very crucial step consisted of the validation of data for the check of precision, consistency, and validity of data for further analysis.

Preparing the data, therefore, involved addressing different quality issues. This included management of missing values, imputation of values where necessary, and fixing the inconsistencies in the data set. Thorough cleaning and preparation of data provide the best base for our team to draw insights through visualization and reach valid conclusions about aviation accidents. This is quality data; this is what shall ensure that meaningful insights are obtained and appropriate prevention strategies developed.

Report – 2

Dhvanil Bhagat - SFSU ID : 924235556

Hi, I am Dhvanil Bhagat, and I am part of Group 2. Our team is developing a Data Visualization system capable of analyzing Aviation Accidents. My roles and responsibilities in this project include designing wireframes for this phase. I have designed wireframes of several dashboards which will form the base of our final data visualization system. These wireframes contained a considerable number of charts and graphs, designed in such a way that they respond to the particular queries related to aviation accidents proposed in our project proposal.

One of these dashboards displays the spatial distribution of accidents by mapping them against locations. Another looks into different types of accidents related to different phases of flight, using either a line chart or bar chart in an attempt to bring out observable trends. We envision our presentation shall make the visualizations transparent and user-friendly, hence helpful for its end user in gaining further valuable insight into the root causes, patterns, and possible prevention strategies around aviation accidents.

Report – 3

Chetas Parekh – SFSU ID : 923873155

Hi, this is Chetas Parekh from Group 2. My major role in this project is the research and evaluation of various technologies which can be used in our data visualization platform. A couple of them which I have gone through are: namely, Tableau, Power BI, Google Charts, and D3.js.

I had researched and contributed valuably to pinpoint the best technology for our project by studying aspects like how the solution managed the data, the variety of visualizations available, ease of use, and further scale-up. As a matter of fact, my findings were important to lead our team toward deciding on technology that would serve us best in the goal of creating an integrated, effective system for data visualization in aviation accident analysis. We conclusively settled on using Tableau for our visualization project.

Note: Dataset selection and report creation was done by all three members together and none of them lacked in providing input to the given all tasks.