TITLE:Understanding Aviation Accidents Trends and Improving Aviation safety

PROJECT GOAL:

IDENTIFY RISKS TO SAVE LIVES

PROBLEM STATEMENT

➤ How to reduce aviation accidents that put millions of lives at risk

OBJECTIVE

➤ The objective is to analyze accident patterns and recommend improved safety

DATA OVERVIEW

► Data source : NTSB aviation accident data

► Key metrics: total accidents analyzed and accident coverage i.e flight phases, weather conditions, type of injuries occurrence and trend of accidents over time
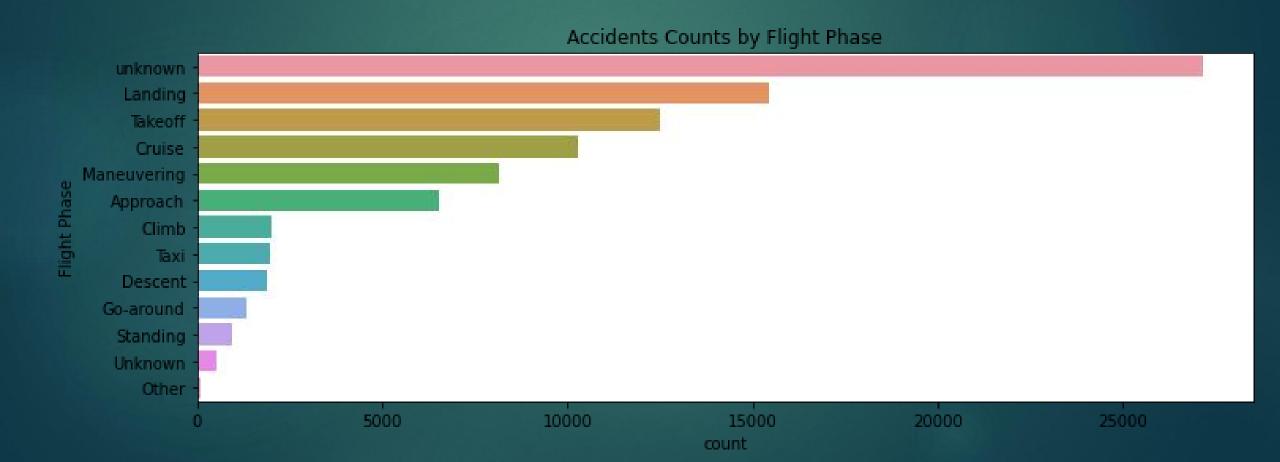
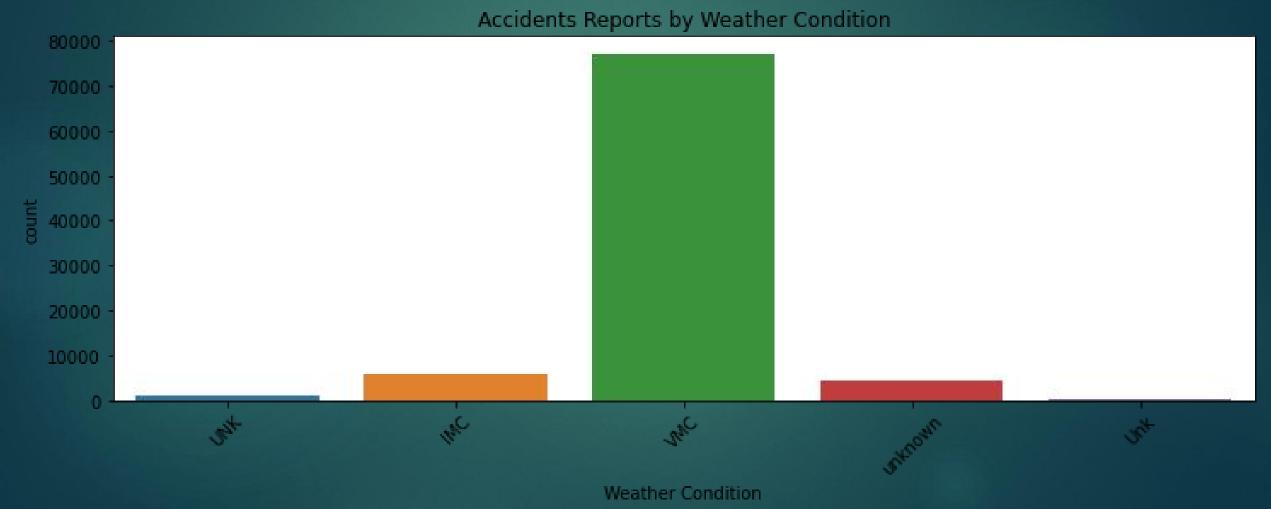► Visual : 842 accidents ✈

      50 states 📍

KEY INSIGHTS
WHEN DO ACCIDENTS OCCUR

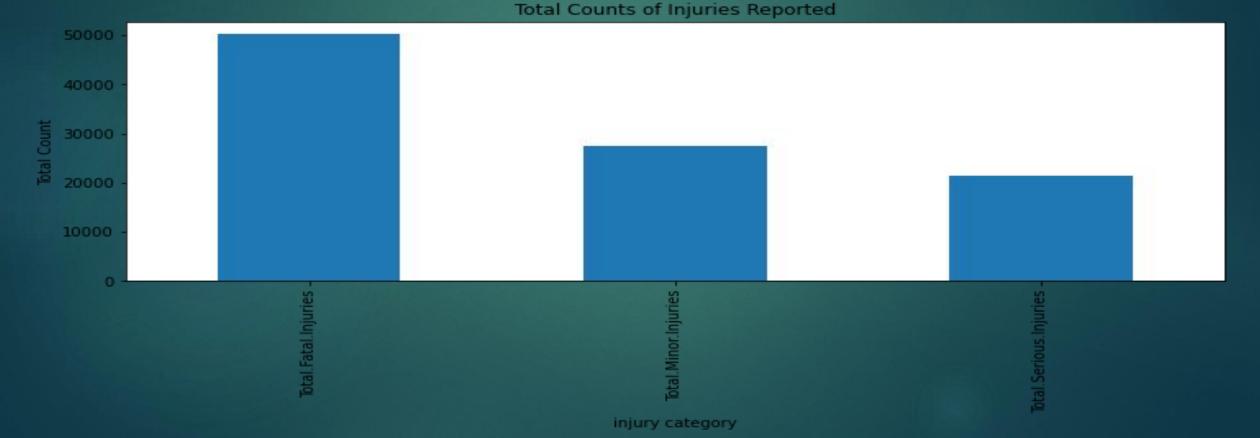► Riskiest flight phase: this is the most accident prone phase with 30% of the accident

Accidents Counts by Flight Phase

THE IMPACT OF WEATHER

▶ This shows accidents occur more when weather conditions are determined by visual preference

Accidents Reports by Weather Condition

TOTAL COUNTS AND TYPES OF INJURIES OCCURRENCE OVER TIME

This shows counts of injuries occurrence whether minor, fatal or serious over time

RECOMMENDATIONS

▶ Prioritize pilot training takeoff procedure

▶ Enhance safety protocols for flights in poor weather

▶ Invest in regional safety audits for high risk states

NEXT STEPS

Future goals

➢ Expand analysis to include maintenance logs

➢ Partner with airlines to test new safety measures

THANKYOU

▶ Call to action: *lets work together to make flying safer*

▶ Contact; NAME: *Dennis Osebe*

Email :

osebe.dennis2020@gmail.com