

Title

Understanding

Aviation Safety

Trends and Improving

Aviation safety

PROJECT GOAL

IDENTIFYING RISKS TO SAVE LIVES

PROBLEM STATEMENTS AND OBJECTIVES:

- ▶ How to reduce aviation accidents that put million of lives at risk
- ▶ 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

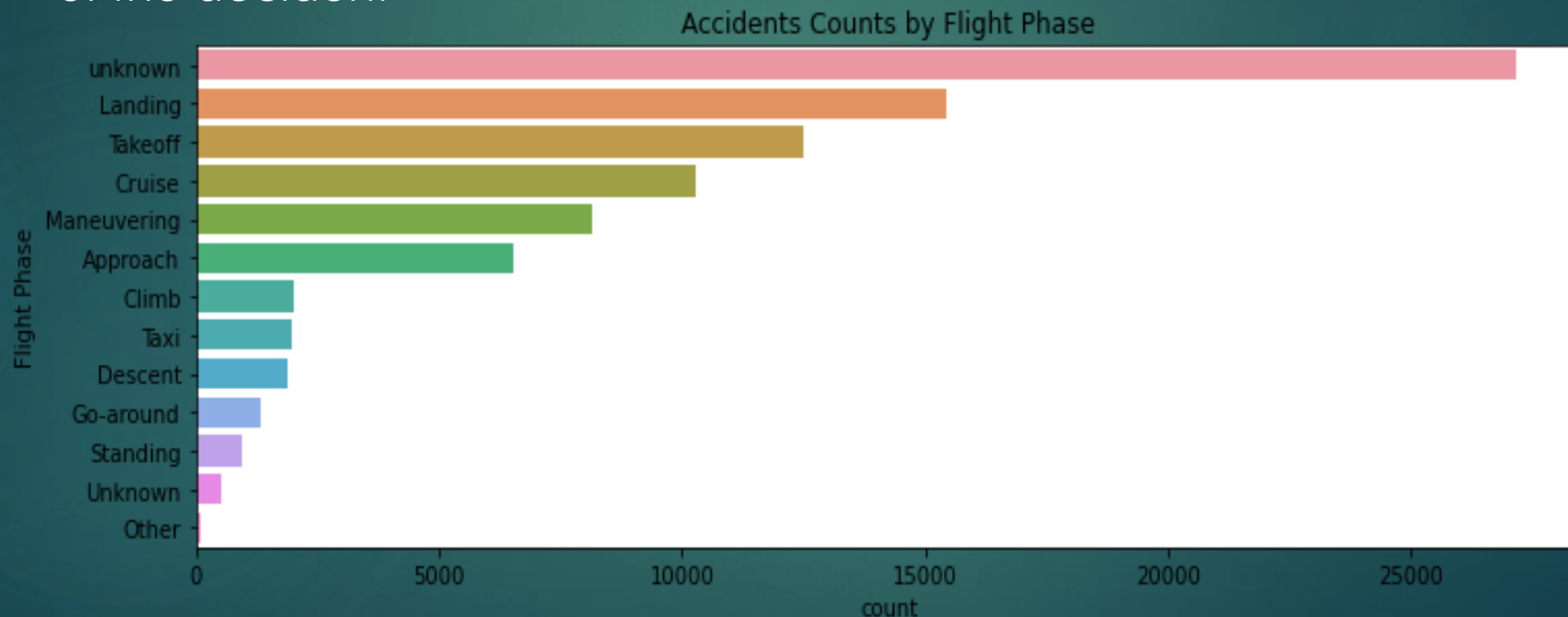
50 states



KEY INSIGHTS

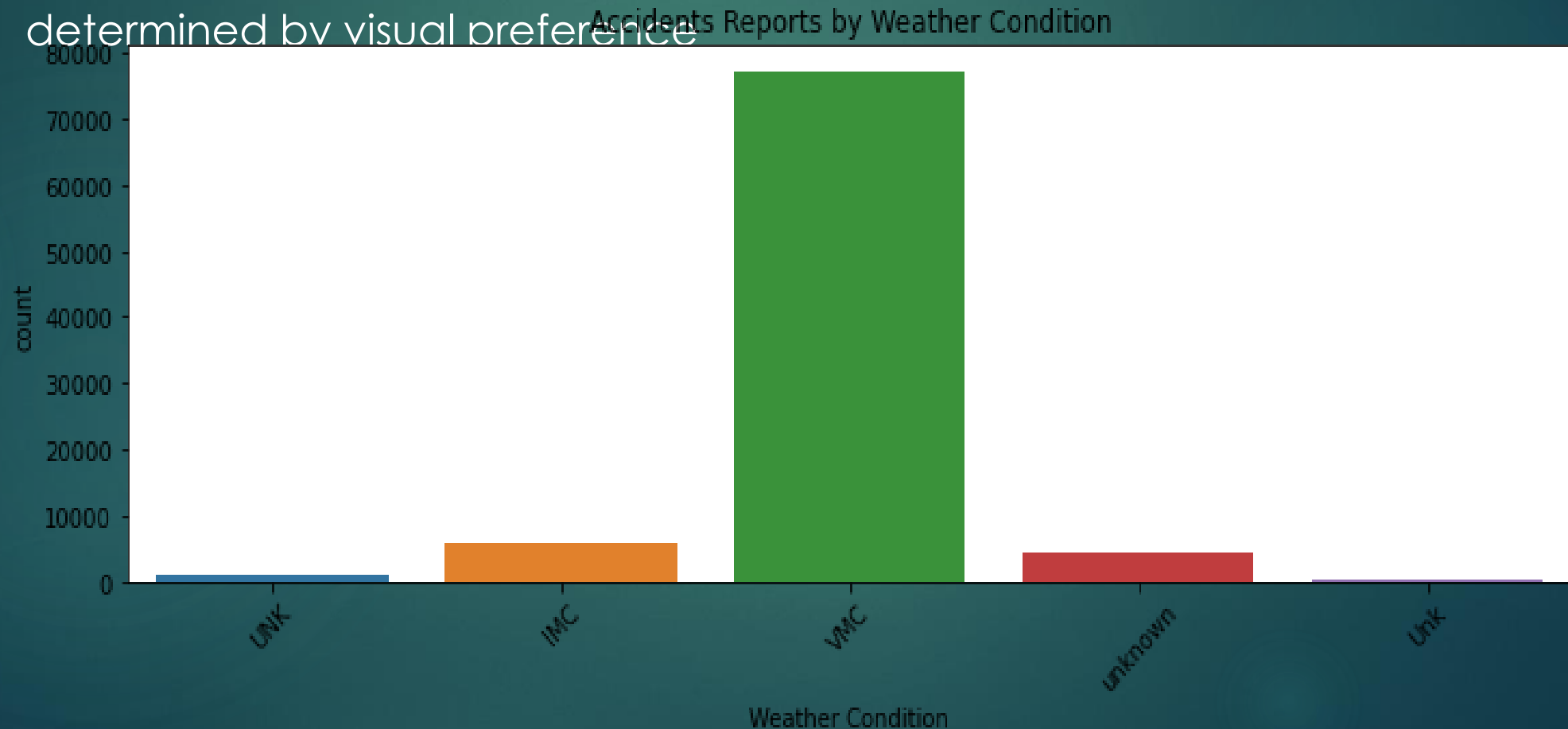
WHEN DO ACCIDENTS OCCUR

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



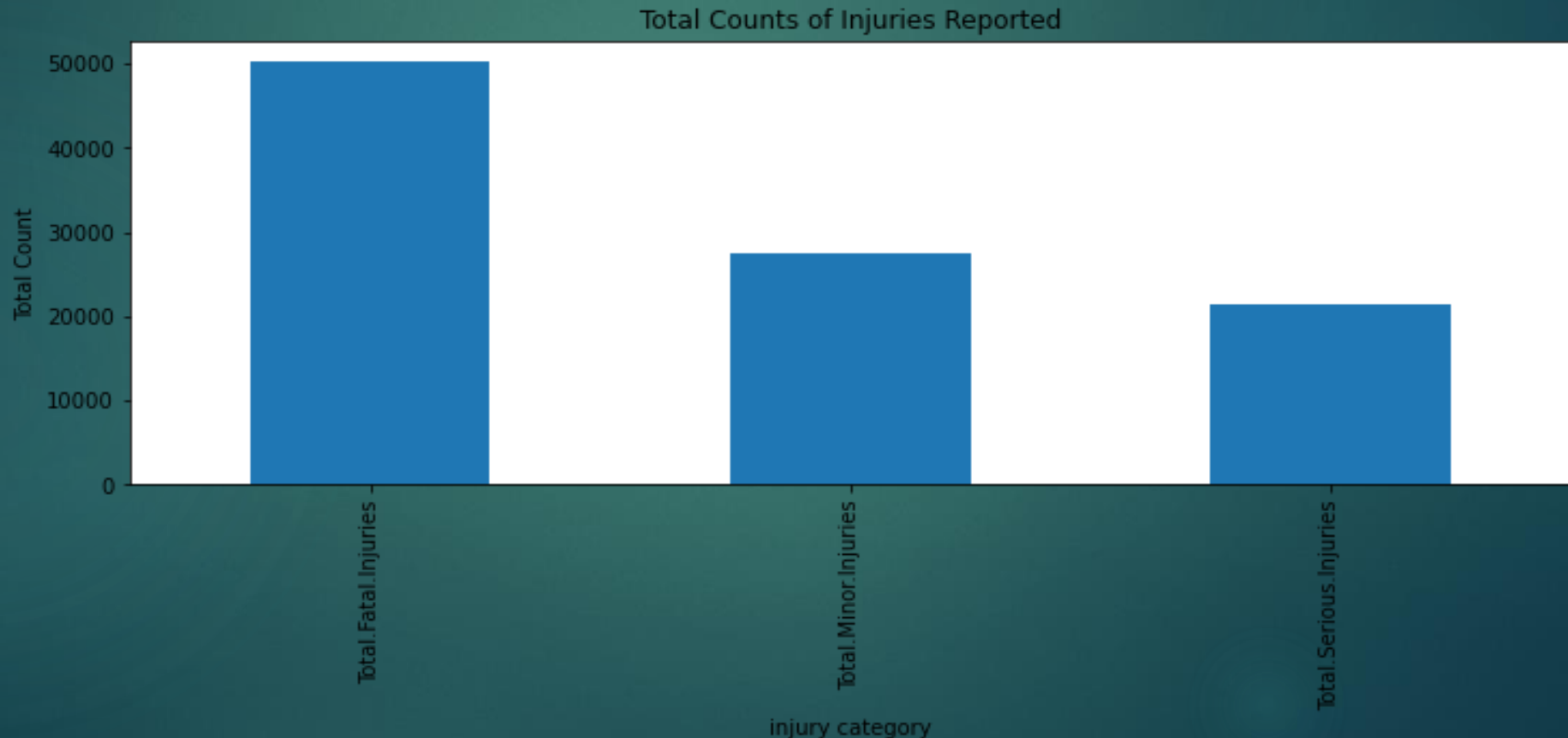
THE IMPACT OF WEATHER

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



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*
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