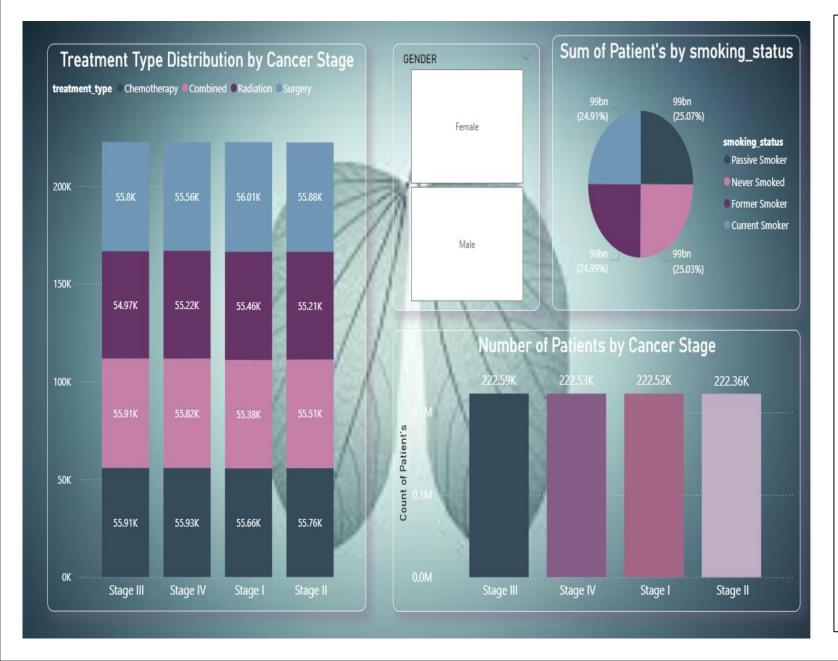
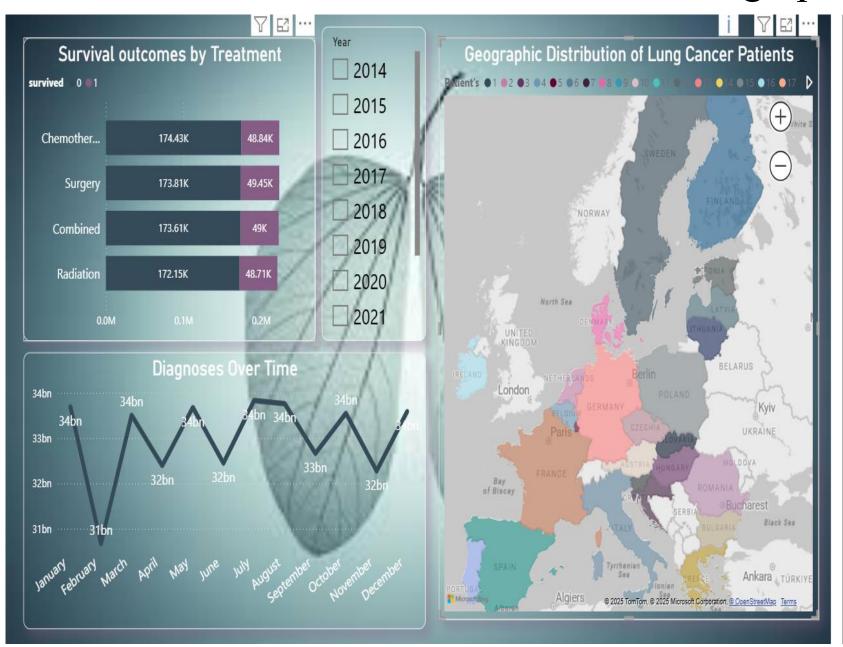
DATA ANALYSIS ON LUNG CANCER INCIDENCE AND RISK FACTOR

Treatment and Patient Profile Dashboard



- ✓ Treatment Distribution by Cancer Stage: Each stage (I–IV) shows a balanced use of Chemotherapy, Radiation, Surgery, and Combined treatments (≈55K patients per type).
- ✓ Patient Count by Stage: Numbers are nearly equal across stages, with Stage III having the highest (222.59K).
- ✓ **Smoking Status:** Distribution is even Passive (24.9%), Never Smoked (25%), Former Smoker (24.9%), and Current Smoker (25%).
- ✓ **Gender Filter:** Allows gender-wise analysis.
- ✓ **Purpose:** To analyze treatment adoption, smoking status impact, and patient volume by cancer stage.

Survival Outcomes and Geographic Trends



Survival Outcomes by Treatment:

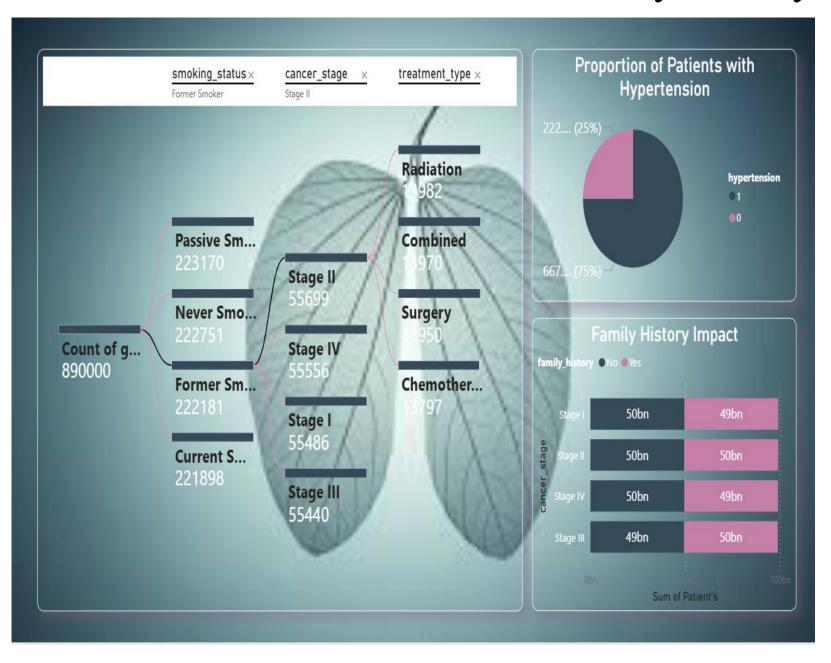
- ☐ Surgery shows the best survival count (49.45K) compared to Chemotherapy (48.84K).
- ☐ Radiation has the lowest survival numbers (48.71K).

Diagnoses Over Time: Patient diagnoses fluctuate between 31bn–34bn monthly, showing seasonal patterns.

Geographic Distribution: Map highlights lung cancer prevalence across European countries (e.g., Germany, France, Finland).

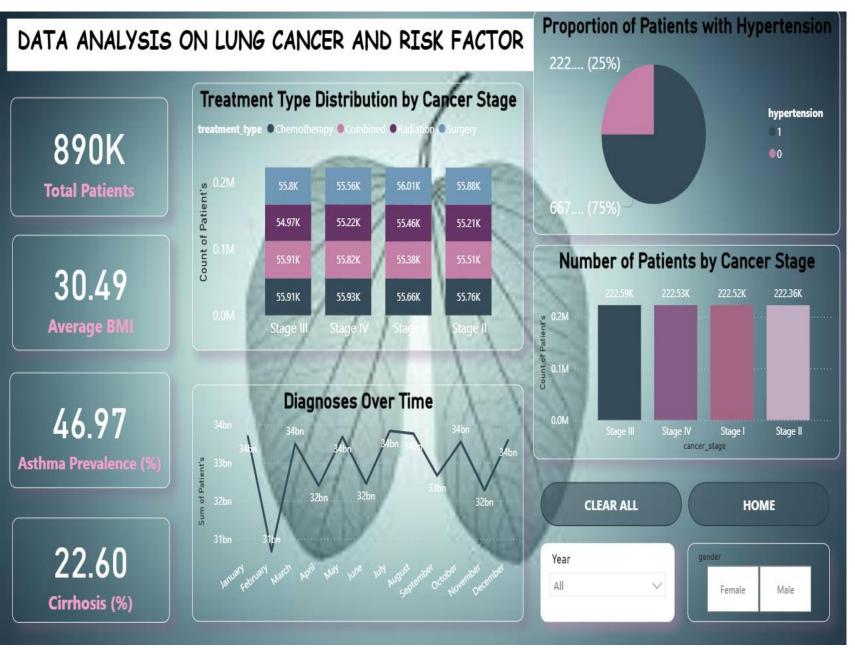
Purpose: Understand treatment effectiveness, track diagnosis trends over time, and visualize patient spread geographically.

Risk Factors and Family History Dashboard



- ✓ Smoking Status & Stage Links: Tree map shows patients across smoking categories and stages (≈222K each).
- ✓ Treatment by Stage: Around 13K–14K patients per treatment type at each stage.
- ✓ **Hypertension Prevalence:** 25% of patients have hypertension, 75% don't.
- ✓ Family History: Around 49–50bn patients across all stages report "Yes/No" family history equally.
- ✓ **Purpose:** To evaluate lifestyle risk factors (smoking, hypertension, family history) influencing treatment and cancer stage.

Summary & Risk Factor Dashboard



- ☐ Total Patients: 890K
- ☐ Average BMI: 30.49
- ☐ Asthma Prevalence: 46.97%
- ☐ Cirrhosis Prevalence: 22.60%

Treatment Type by Cancer Stage:

Equal distribution across Chemotherapy, Radiation, Surgery, and Combined (~55K each).

Hypertension Impact: 25% affected, 75% unaffected.

Dianoses Over Time: Seasonal variation, peaks at 34bn cases.

Purpose: Provides an overall summary combining patient demographics, health risk factors, treatments, and diagnosis timeline.