

Employment Analytics Dashboard - Documentation

Introduction

The Employment Analytics Dashboard gives users access to cybersecurity job market data. Through this tool users across different groups can study employer needs alongside salary patterns combined with required skills and patterns of remote work opportunities. The dashboard features three linked pages with interactive visualizations and filtering functions that support an extensive analysis.

Page 1: Employment Overview

This page provides a **high-level summary** of job market trends.

- **Key Metrics:** Total Job Openings, Average Salary, Percentage of Remote Jobs, Industry Demand Status.
- **Visuals:**
 - **Bar Chart:** Salary Distribution by Experience Level.
 - **Pie Chart:** Job Openings by Company Size.
 - **Line Chart:** Hiring Trends Over Years.
- **Filters:** Work Year, Experience Level, Company Size, Employment Type.
- **Interactivity:** Selecting any filter updates all visuals dynamically.

Page 2: Salary & Job Trends

This section allows users to **compare salaries and hiring patterns** across different variables.

- **Visuals:**
 - **Box Plot:** Salary Ranges by Job Title.
 - **Stacked Bar Chart:** Salary Comparison by Company Location & Remote Work.
 - **Stacked Column Chart:** Growing vs Declining Job Roles.
- **Filters:** Job Title, Company Location, Remote Work Ratio, Salary Range.
- **Interactivity:** Selecting a job title updates salary insights and hiring trends.

Page 3: Skills & Certifications

This page focuses on **required skills and certifications** for different cybersecurity roles.

- **Visuals:**
 - **Clustered Bar Chart:** Top Cybersecurity Skills in Demand.
 - **Stacked Bar Chart:** Certifications Required by Job Role.
 - **Pie Chart:** Distribution of Candidate Profiles (Entry-Level vs Experienced).
- **Filters:** Skill Search, Certification Dropdown, Required Qualification.

Conclusion

Users obtain cybersecurity job market data through the dashboard which helps them base their decisions on factual information. The system provides interactive filters in addition to cross-page connections which enable users to examine hiring trends and salary data along with required skills efficiently.