

Evostra Group D– Website & Dashboard Documentation

1. Introduction

The *Evastro Group – D Project* is a job market analysis system that combines a **Python-Flask based web application** with an **interactive Power BI dashboard**. The website focuses on job exploration and filtering, while the dashboard provides analytical insights such as skill demand, job trends, and company-wise distribution.

This combined system helps students, freshers, and professionals understand real-world job market patterns using structured CSV-based job data.

2. Objectives of the Project

- Analyze job market data efficiently
- Provide a centralized job exploration platform
- Identify in-demand skills and job categories
- Visualize job trends using dashboards
- Help users make informed career decisions
- Demonstrate integration of web development and data visualization

3. Scope of the Project

3.1 Website Scope

- Job listing and exploration
- Search and filter functionality
- Salary and experience-based categorization
- Clean and professional UI

3.2 Dashboard Scope

- Job category-wise analysis
- Skills demand visualization
- Year-wise job distribution
- Company and country-wise insights

4. Technologies Used

Frontend

- HTML5
- CSS3
- Responsive Grid Layout
- Minimal JavaScript

Backend

- Python 3
- Flask Web Framework

Data & Visualization

- CSV Dataset (Job Data)
- Power BI Desktop

Development Tools

- Visual Studio Code
- Git & GitHub

5. System Architecture

The project follows a simple and scalable architecture:

CSV Dataset → Flask Backend → HTML Templates → Website UI

CSV Dataset → Power BI → Interactive Dashboard

This approach avoids database dependency while allowing future scalability.

6. Website Module Description

6.1 Home Page

- Welcome message
- Navigation menu (Home, Jobs, About)
- Clean grey and white theme

6.2 Job Exploration Page

- Dynamic job cards loaded from CSV
- Displays job title, company, location, salary, and experience
- Search functionality
- Filters based on:
 - Job title
 - Location
 - Category
 - Experience level
 - Salary range

6.3 Job Detail Page (Maintenance Mode)

- Placeholder page for job details
- Automatic redirection to job list
- Graceful handling of missing URLs

6.4 About Page

- Project description
- Team member details
- Contact information

7. Dataset Description

The job dataset used for both the website and dashboard is stored in CSV format and contains:

- Job ID
- Job Title
- Company Name
- Location (City, Country)
- Job Category
- Skills
- Experience Level
- Salary (Minimum & Maximum)
- Job Tags
- Optional URLs

Unused columns are safely ignored by the system.

8. Power BI Dashboard Description

8.1 Dashboard Overview

The Power BI dashboard provides interactive visual analysis of job market data using filters and charts. It enables users to explore trends and patterns that are not easily visible in raw data.

8.2 Job Category Filter

- Allows filtering by job categories such as:
 - Content Writing
 - Data Analysis
 - Data Science
 - Design
 - DevOps
 - Finance
 - Marketing
 - Product Management
- Helps focus analysis on specific domains

8.3 Total Jobs Indicator

- Displays total number of jobs based on selected filters
- Provides a quick snapshot of job availability

8.4 Skills Demand Analysis

- Bar chart representing most in-demand skills
- Highlights technologies like Python, R, React, DevOps tools, Ansible, and Jira
- Useful for understanding current market skill requirements

8.5 Year-wise Job Distribution

- Pie chart showing jobs posted across different years
- Helps analyze growth and trends over time

8.6 Company and Country-wise Analysis

- Bar chart showing jobs by company
- Color-coded by country or region
- Identifies top hiring companies and regions

8.7 Job Skills Overview Table

- Displays job category-wise skill counts
- Shows skills required per category
- Useful for academic and career analysis

9. Advantages of the Combined System

- Combines functional job exploration with analytical insights
- Easy to use and understand
- No database dependency initially
- Suitable for academic evaluation
- Scalable for future enhancements

10. Limitations

- Static CSV-based data
- No real-time updates
- No user authentication
- Manual data refresh required

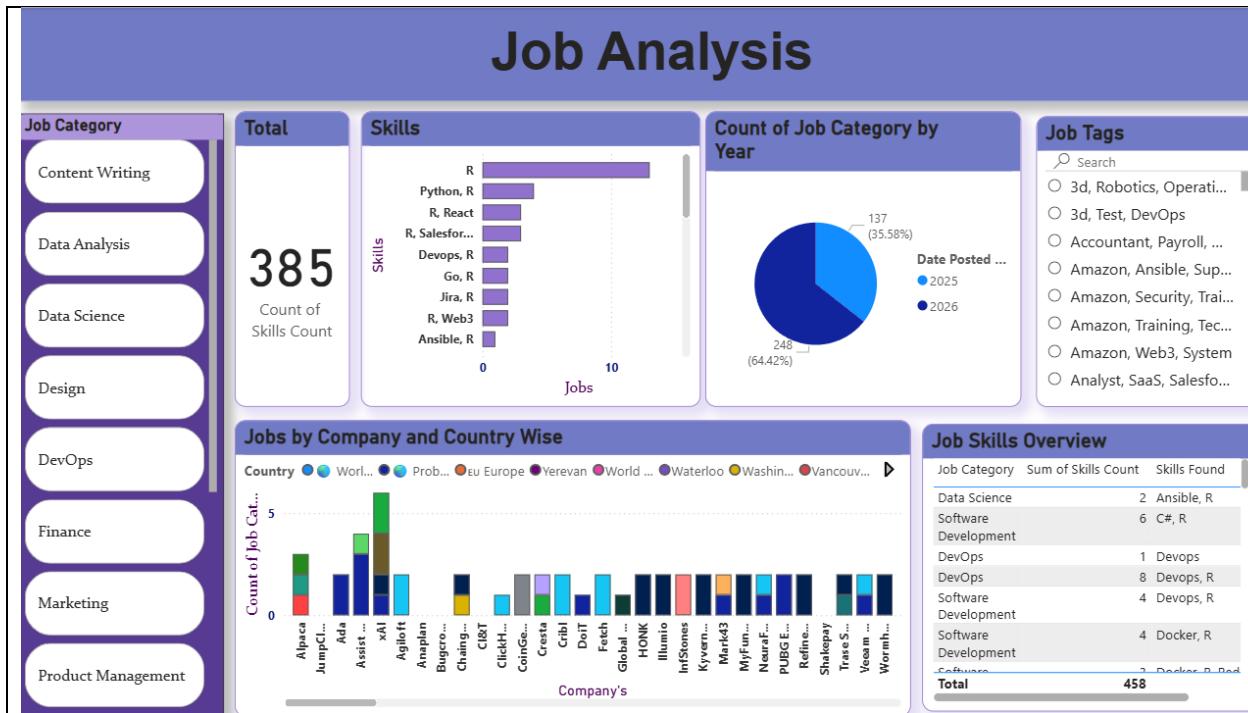
11. Future Enhancements

- Database integration
- Automated data scraping
- User login and personalization
- AI-based job recommendations
- Predictive analytics dashboard

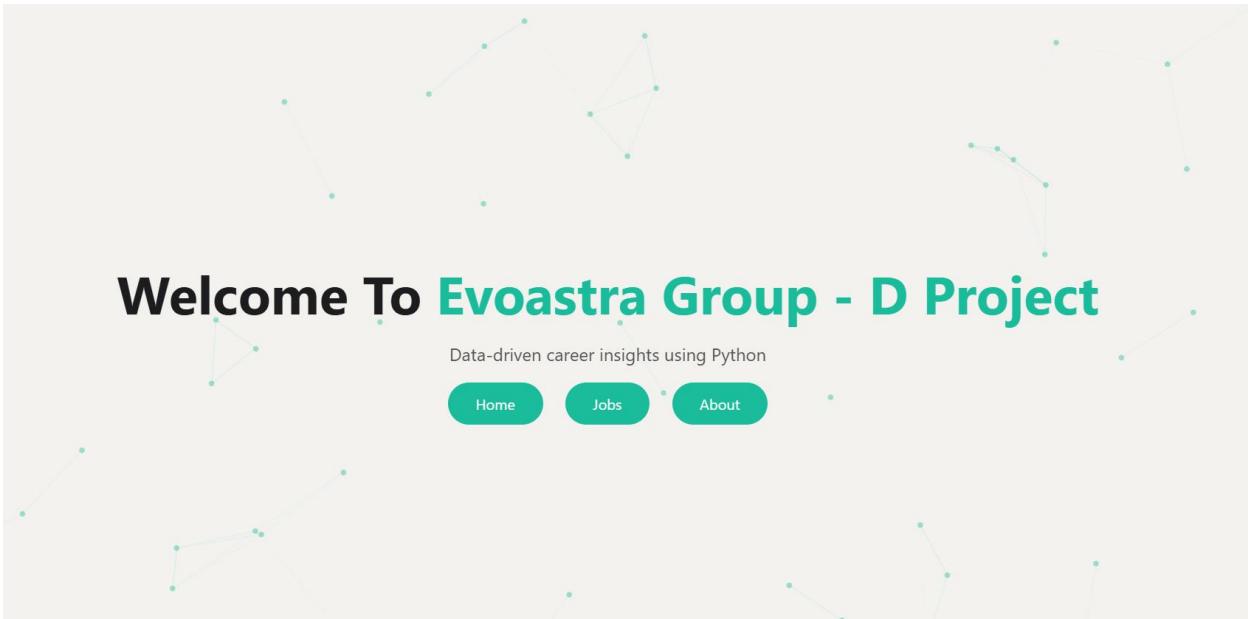
12. Conclusion

The Evastro Group – D Project successfully integrates a job exploration website with a Power BI dashboard to deliver both operational functionality and meaningful job market insights. The project demonstrates strong skills in Python, web development, and data visualization, making it suitable for both academic submission and real-world applications.

Screenshot of dashboard



Screenshot of Website



This screenshot displays the "Job Exploration" section of the website. At the top left, there is a "Home" button. To its right, the section title "Job Exploration" is centered, with the subtitle "Discover opportunities & insights tailored for you" just below it. The main content area contains several job listing cards arranged in a grid. On the far left, a "Filter Jobs" sidebar includes input fields for "Job, skill, company" and "Location", and a teal "Apply Filters" button. The job listings include:

- \$1k Weekly Work from Home Assistant**
Best Estimate Pro
us United States
R
Sales
[View Details](#)
- Coding Bootcamp - Job Guaranteed**
Metana
• Worldwide
R
Other
[View Details](#)
- Senior Social Media & Digital Marketing Virtual Assistant**
Assist World
• Probably worldwide
R
Data-Science
[View Details](#)
- Technical Support Specialist**
Robin Powered
Boston, Massachusetts
R
Support
[View Details](#)
- Virtual Assistant Client Services**
Assist World
• Probably worldwide
R
Data-Science
[View Details](#)
- SDE 1**
IN50 - Independent Technology India (IN50)
IN,Bangalore.Remote
R
Other
[View Details](#)
- Infrastructure & Capital Projects Senior CSA Estimator ANS**
- Sales Development Representative II**
- Member of Technical Staff Dev Extension (FRONTEND**

Filter Jobs

Apply Filters

Infrastructure & Capital Projects Senior CSA Estimator ANS

Accenture Infrastructure & Capital Projects, LLC
Remote
R
Support
[View Details](#)

Sales Development Representative II

EasyPost
Lehi, Utah
R
Sales
[View Details](#)

Member of Technical Staff Dev Extension (FRONTEND)

DevRev
Chennai
None identified
Software Development
[View Details](#)

Senior UX Designer I

RainFocus
Salt Lake City, UT
None identified
Design
[View Details](#)

Video Editor

Circle.so
Remote
None identified
Design
[View Details](#)

Regional Named Account Executive Pennsylvania

PointClickCare
Remote or Mississauga
R
Sales
[View Details](#)

Site Reliability Engineer II

Restaurant365
Remote
R
DevOps
[View Details](#)

Virtual Assistant Social Media Management & Systems Support

Assist World
Probably worldwide
R
Support
[View Details](#)

Sales Development Representative

CommonLit
Remote
R
Sales
[View Details](#)

Participation Of team members

Project Team



Sagar Karosiya
Member
Email: sagarsingkarosiya39082@gmail.com
[LinkedIn Profile](#)



Nitin Chaudhary
Team Leader
Email: chaudhary1881998@gmail.com
[LinkedIn Profile](#)



Pranjali Nandkar
Co-Leader
Email: pranjalinandkar2905@gmail.com
[LinkedIn Profile](#)



Ganesh
Co-Leader
Email: ganeshtarapure123@gmail.com
[LinkedIn Profile](#)



Sambit Mallik
Member
Email: sambitmallik121@gmail.com
[LinkedIn Profile](#)



Shivam Sharma
Member
Email: shivamsharma952031@gmail.com
[LinkedIn Profile](#)