



PROJECT REPORT

Data Analytics  
  
Analyzing Student Data: Performance and Career Outcomes

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| **Created On:** | 27/08/2024 | **Approved On:** | 27/08/2024 |

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**General Instructions for using the Live Project Report Template**

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* The text in *italics* highlighted in grey is just for reference and should be removed after adding the relevant text

# **PROJECT DETAILS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name** | Analyzing Student Data: Performance and Career Outcomes | | |
| **Project Sponsor** | Tushar Topale | | |
| **Project Manager** | Harshada Topale | | |
| **Start Date** | 01-06-2024 | **Completion Date** | 30-08-2024 |

# **SUMMARY**

Many students apply for internships and jobs annually, with resumes playing a crucial role in the first impression. Over 70% of resumes are rejected in the initial screening due to ATS application. It's important to pay attention to details and spend qualitative time preparing a quality resume to pass the initial screening. A comprehensive analysis of students' internships aims to gain insights into academic performance, event participation, career aspiration, and factors influencing success. A dataset containing various attributes is collected for each student.

# **INTRODUCTION**

## Background

Millions of students apply for internships/jobs every year, resumes play an important role in playing the first impression. The recruiters spend a max of 2-3 minutes reviewing a resume after it landed in their mailbox or job board. ATS application. Suprising more than 70% of resumes get rejected in the initial screening.

## Stakeholders

**Key Stakeholders:**  
1)Harshada Topale

**Users:**  
1)Durgam Devani (Intern)  
2)Project Managers- Harshada Topale

**1)** **Harshada Topale (Stakeholder**): Harshada's goals may include using project results to make strategic decisions and improve programs.

**2)** **Durgam Devani (Intern user)**: Durgam's objectives may include acquiring insights into her internship experience and applying project insights to improve her understanding.

**3)** **Harshada Topale (Project Manager User):** As a user, Harshada's responsibilities may include monitoring project progress and ensuring that project outputs are consistent with strategic goals.  
These variances develop because each individual interacts with the project in a distinct manner, contributing to their personal goals and expectations.

## Objectives

We aim to conduct a comprehensive analysis of our students intern to gain insights about relation between their academic performance, event participation, career aspiration and factors influencing their success. we have collected a dataset containing various attribute for each students.

Changes to Objectives:

There have been no significant changes to the project objectives since the Project Charter was approved. Any adjustments made were minor and did not alter the core objectives.

# **METHODOLOGY**

These conventions are all about the positions of line breaks, how many characters should go on a line, and everything in between.

## Considerations & Assumption

1. **External Factors:** Assume no major impact from economic conditions or global events on event participation, academic performance, or job aspirations.
2. **Homogeneity:** Assume the student intern population is similar in terms of socioeconomic background, which may impact academic achievement and career goals.
3. **Data Timeliness:** Ensure timely data collection to appropriately reflect student interns' academic performance, career goals, and event participation. Consider how the timing of data gathering influences its relevance.
4. **Data Source Reliability:** Assume data sources, such surveys or academic records, are dependable and error-free.
5. **Ethical Considerations:** Ensure assumptions comply with ethical data management norms, including confidentiality and privacy.
6. **Stakeholder Cooperation:** Expect full cooperation from student interns and stakeholders in delivering correct data and participation in events.

## Approach

1. **Clearly defined phases:** These frameworks include initiation, planning, execution, monitoring, and closure. They provide clarity on what should be done at each level.
2. **Risk Management:** Structured techniques prioritize risk detection and reduction. This is critical for identifying and addressing any project obstacles.
3. **Resource Allocation:** They optimize resource allocation and ensure timely availability of personnel and materials.
4. **Quality Control:** These frameworks incorporate quality assurance and control mechanisms to ensure high project standards.
5. **Communication:** They prioritize strong communication strategy to keep stakeholders informed and involved throughout the project.
6. **Documentation:** Structured approaches require thorough documentation to track progress and ensure accountability.

## Activities

**Requirement gathering:**

**Hardware Requirements**- Laptop with good processor, speed, RAM and internet connection.

**Software Requirements-** Power BI/ Tabuleo, Ms Excel

**Constraints-** The study faces challenges such as limited data size, time constraints, ethical considerations, external factors, resource limitations, causal inference, generalizability, interpretation, incomplete attribute coverage, retrospective analysis, and recommendations scope.

|  |
| --- |
| **Planning** |
| Project Schedule |
| Approval of business process |
| Baseline project plan |
| Team roles and responsibilities |
| Software selection |
| RAID logging |
| Identify Power BI tools |
| Plan the structure of your analysis |

# **TARGETTED V/S ACHIEVED OUTPUT**

**Targeted Output:**

* + Data Preprocessing Report: Completed
  + EDA Report: Completed
  + Regression Analysis Report: Completed
  + Data Visualizations: Completed
  + Recommendations Report: Completed
  + Presentation: Completed
  + Data Insights Dashboard: In Progress (80% complete)
  + Documentation: Completed
  + Future Research Opportunities: Yet to Start
  + Raw Data File: Completed

**Achieved Output:**

* + Data Preprocessing Report: Completed
  + EDA Report: Completed
  + Regression Analysis Report: Completed
  + Data Visualizations: Completed
  + Recommendations Report: Completed
  + Presentation: Completed
  + Data Insights Dashboard: In Progress (80% complete)
  + Documentation: Completed
  + Future Research Opportunities: Yet to Start
  + Raw Data File: Completed

**Reasons for Deviation:**

* + Technical issues caused a delay in completing the Data Insights Dashboard, requiring additional time for development and testing.
  + Future research opportunities were not begun as the focus was on providing core analysis and insights.
* Overall, discrepancies were due to unexpected technological hurdles and resource restrictions. These deviations teach essential lessons for future projects, highlighting the significance of early issue detection and resource planning.

# **CONCLUSION**

This study emphasizes the complex relationship between students' socioeconomic status, academic performance, and career goals. According to the data analysis, students with stronger academic records and active participation in extracurricular activities tend to demonstrate higher levels of competence and set larger income expectations for their future professions. Students from less fortunate families, on the other hand, frequently confront obstacles that can jeopardize their academic success and, as a result, their career goals.  
  
The findings highlight the importance of targeted interventions for students from varied economic origins, enabling equitable access to academic and professional development opportunities. By addressing these gaps, educational institutions and companies may create a more inclusive atmosphere that encourages success for all students, resulting in a more equitable workforce.

# **APPENDICES**

## Appendix A – Analyzing Student Data: Performance and Career Outcomes

**1. Initiation**

* Identify business problem
* Recruit a team
* Create a project charter
* Requirement gathering
* Find best Tools for analysis

**2. Planning**

* Project Schedule
* Approval of business process
* Baseline project plan
* Team roles and responsibilities
* Software selection
* RAID logging
* Identify Power BI tools
* Plan the structure of your analysis

**3. Execution**

* Learn Power BI/Tableau
* Clean the Data
* Design the layout of Power BI/Tableau visualizations
  1. **Development**
     + - Create initial Power BI/Tableau visualizations
  2. **Deployment**
     + - Prepare the final dataset for analysis
       - Deploy Power BI/Tableau visualizations for full-scale analysis
  3. **Testing**
     + - Validate Power BI/Tableau visualizations for correctness
* **Analysis and Interpretation**
  + - * + Analyze results of Python code and Tableau visualizations
        + Interpret findings and identify key insights
      * Reporting and Documentation
      * Summarize project's findings in a comprehensive report
      * Create a presentation in Tableau with visualizations and insights
      * Presentation video

**4. Closure**

* Lessons Learnt, Project Report