



PROJECT REPORT

DATA ANALYTICS  
  
Student Data Analysis

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# **PROJECT DETAILS**

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| **Project Name** | Student Data Analysis | | |
| **Project Sponsor** | Tushar Topale | | |
| **Project Manager** | Harshada Topale | | |
| **Start Date** | 28-08-2024 | **Completion Date** | 15-09-2024 |

# **SUMMARY**

The Student Data Analysis project explored how students' family income impacts their academic performance and salary expectations. It was conducted to help Industry Academia Program to understand these relationships and provide better support to students. The project revealed patterns that can assist educational institutions in improving policies and programs. In the long term, these insights will guide data-driven decisions, helping to enhance student outcomes and create more tailored support strategies.

# **INTRODUCTION**

## Background

Millions of students apply for internships/jobs every year, resumes play an important role in making 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. Surprisingly, more than 70% of resumes get rejected in the initial screening.

## Stakeholders

It’s important to pay attention to details and spend some qualitative time preparing a quality resume to get through this initial screening as the job market is really competitive.

Key stakeholders and users include those who use and benefit from the system. Their goals may differ, with users focusing on ease of use and stakeholders on outcomes. The system is installed, maintained, and fixed by IT teams, while trainers teach users how to operate it. Authorized users manage the data, and the system exchanges information with other tools. Involving all relevant parties ensures the system meets requirements.

## Objectives

We aim to conduct a comprehensive analysis of our student interns to gain insights about the relationship between their academic performance, event participation, career aspiration, and factors influencing their success. We have collected a dataset containing various attributes for each student.

# **METHODOLOGY**

## Considerations & Assumption

* Assumptions:

This project assumes that all necessary data about students’ economic background, academic performance, skills, and salary expectations is available, correct, and representative. It also assumes that the terms used for these factors are clear and measured consistently. The project further assumes that the analysis methods chosen are appropriate, and that stakeholders will be willing to act on the insights provided.

* Constraints:

The project may face challenges like missing or inaccurate data, which could reduce the quality of the analysis. Privacy rules could limit how much sensitive information can be shared or used. Time, budget, and available technology may restrict how detailed the analysis can be. External factors, such as changes in the economy or education policies, could also affect the findings. Additionally, analysing multiple factors together could make the results harder to interpret clearly.

## Approach

I adopted a structured approach to solve the problem by first identifying key variables such as students’ economic background, academic performance, competence, and expected salary. After collecting the necessary data, I cleaned and processed it to ensure accuracy. I performed statistical analysis, including correlation and regression, to understand the relationships between these factors. Finally, I visualized the results using PowerBi.

## Activities

* **Data Cleaning:** I cleaned the dataset by handling missing values, removing duplicates, and ensuring data consistency and accuracy.
* **Exploratory Data Analysis (EDA)**: I performed EDA to identify patterns, trends, and relationships between the key variables.
* **Data Visualization**: I created visualizations using Power BI to present the insights clearly and make it easier for stakeholders to understand the relationships between the variables.
* **Report Writing**: I documented the findings and insights gained from the analysis to ensure the results can guide future decisions.
* **RAID logs:** I documented the RAID logs to identify all the Risks, Assumptions, Issues and Dependencies of the project.

# **TARGETTED V/S ACHIEVED OUTPUT**

The targeted output was to find patterns and relationships between the students' economic background, academic performance, competence, and expected salary. I was able to achieve the goal by identifying clear correlations and trends between these factors. Minor deviations occurred due to some incomplete data, but this did not significantly impact the final results.

# **CONCLUSION**

This project provides valuable insights into how various factors influence students' salary expectations. These insights can help educational institutions tailor their programs to better support students from diverse backgrounds. In the future, this analysis could be extended with larger datasets or additional factors to refine the findings and enhance decision-making for stakeholders.

# **APPENDICES**

## Appendix A – Title



