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ANALYTICS TOOL FOR PLACEMENTS

Presented by

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INTRODUCTION

- Data analytics is a method of applying quantitative and qualitative techniques to analyze data, aiming for valuable insights. With the help of data analytics, we can explore data (exploratory data analysis) and we can even draw conclusions about our data (confirmatory data analysis).

- This data set consists of Placement data of students in a XYZ campus. It includes secondary and higher secondary school percentage and specialization. It also includes degree specialization, type and Work experience and salary offers to the placed students

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ABSTRACT

- An analytics tool for placements project in IBM Cognos is a robust and versatile software solution designed to streamline and optimize the process of student placements within educational institutions. Leveraging the power of IBM Cognos, this tool provides data-driven insights, allowing institutions to efficiently manage, track, and analyze placement data.

- It empowers users to make informed decisions by generating comprehensive reports, visualizing trends, and monitoring key performance indicators. With its user-friendly interface and advanced analytics capabilities, this tool enhances the placement process, ultimately improving student outcomes and the overall efficiency of placement activities in academic settings.

LITERATURE SURVEY

PAPER-I

TITLE: Automation and Analysis of Campus Placements in Colleges

AUTHOR: Aishwarya S.Kendel

This paper represents an Enterprise Resource Planning (ERP) system for Training and Placement Cell in educational institute campuses. The proposed system called TnP Vision aims to automate the entire placement process. It is an interactive software platform that focuses on student data management and analysis to digitise practices, providing visibility into students' success, and providing a forum for employers to streamline the hiring process.

LITERATURE SURVEY

PAPER-II

TITLE: Predictive Analytics for Placement of Student

AUTHOR: Sonali Rawat

Predictive Analytics can be used in Educational Institute to predict placements of students as employability has become one of the crucial businesses in the present world. Monumental amount of students takes admission in professional college with the hope of acquiring their dream job. So, it would be a great deal if institute as well as student can get idea of placement beforehand .

LITERATURE SURVEY

PAPER-III

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TITLE: Results and Placement Analysis and Prediction using Data Mining
AUTHOR: Riya Mehta, Siddhi Parekh, Ankit Parekh

Analysis of data plays a very important role in understanding of information from a given set of data. Analysis of data can be performed using various data mining algorithms which help them to take decisions or arrive at a conclusion with the help of available data

DRAWBACKS IN EXISTING SYSTEM

- Complex software features.

- Slow Analysis Process.

- Not Accurate Analysis Report.

- Takes more time more.

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PROPOSED SOLUTION

- Fast Analysis of Literacy data using IBM Cognos.

- Fast Recovery of Data.

- Accurate Result of Data

- Fast prediction

ADVANTAGES

- Lower costs—reduces maintenance due to complete report coverage and a zero-footprint environment.

- Faster results—shorten reporting time due to seamless integration and adaptive authoring.

- High-performance data access across all sources.

- Improved decision-making—reports and dashboards present data in easily- understood formats.

WORKFLOW DIAGRAM
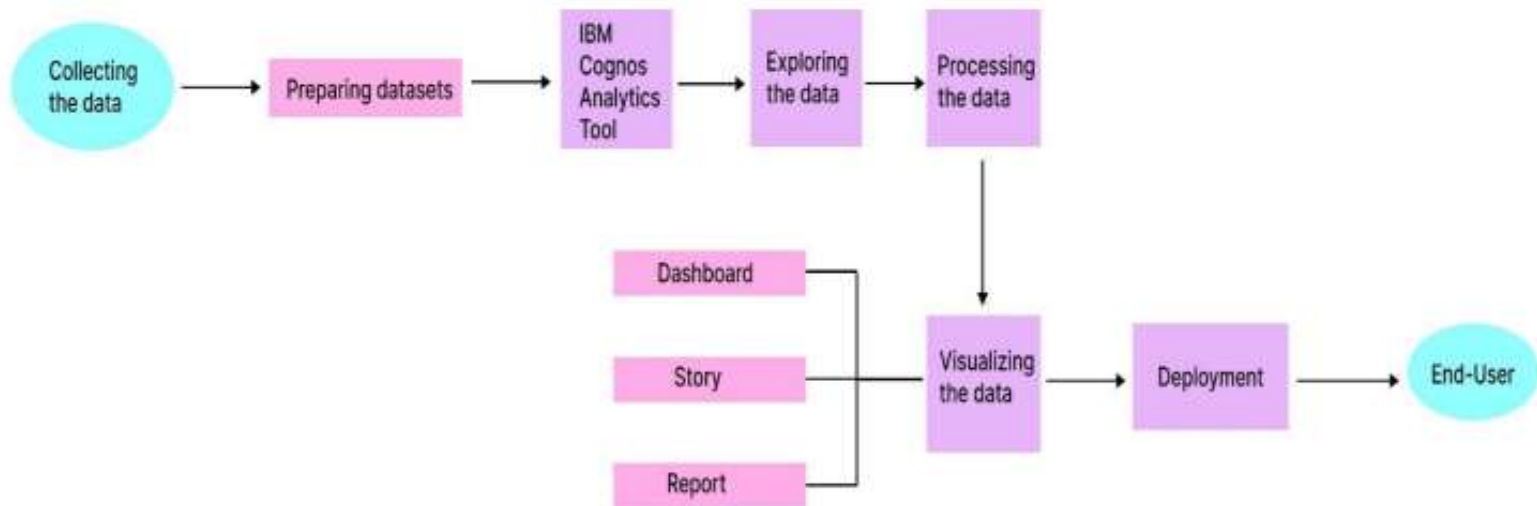
SYSTEM SPECIFICATION

HARDWARE USED:

- Processor : Intel Core i5-4200U CPU
- RAM : 4 GB
- Hard Disk : 1 TB

SOFTWARE USED:

- Operating System : Windows
- Language : Python
- Implementation-
- Tool : Anaconda, IBM Cognos Analytics

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SYSTEM SPECIFICATION

TOOL REQUIREMENTS

- Operating System : Windows 10 / 8.1 / 8

- Disk Space : 256 MB

- Processor : Intel atom processor

- Version : 3.6.2

LANGUAGES DESCRIPTION

- HTML

- CSS

- FLASK

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MODULE DESCRIPTION

1. DATA PREPROCESSING: Data preprocessing is the first machine learning step in which we transform raw data obtained from various sources into a usable format to implement accurate analysis methods.

2. DASHBOARD: A dashboard in data analytics is a visual representation of data that provides an overview of key metrics, trends, and insights. It typically consists of various visual components such as charts, graphs, tables, and widgets, which are designed to convey information quickly and effectively

MODULE DESCRIPTION

3. REPORT: The report emphasizes the significance of data analytics in unlocking valuable insights and emphasizes the potential for continued exploration and discovery in the field of data analytics.

4. STORY : In data analytics, the story serves as a powerful tool for communication and persuasion. It helps bridge the gap between technical analysis and decision-makers by presenting insights in a narrative format that resonates with the audience.

MODULE DESCRIPTION

5. WEB INTEGRATION : All the visualized data is delivered to the user through a web application which is coded in HTML. For this feature, the flask is used to integrate the web pages. It runs by Python to interconnect all the project HTML file pages. It gives smooth transition of pages on web application.

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RESULT AND DISCUSSION

RESULT AND DISCUSSION

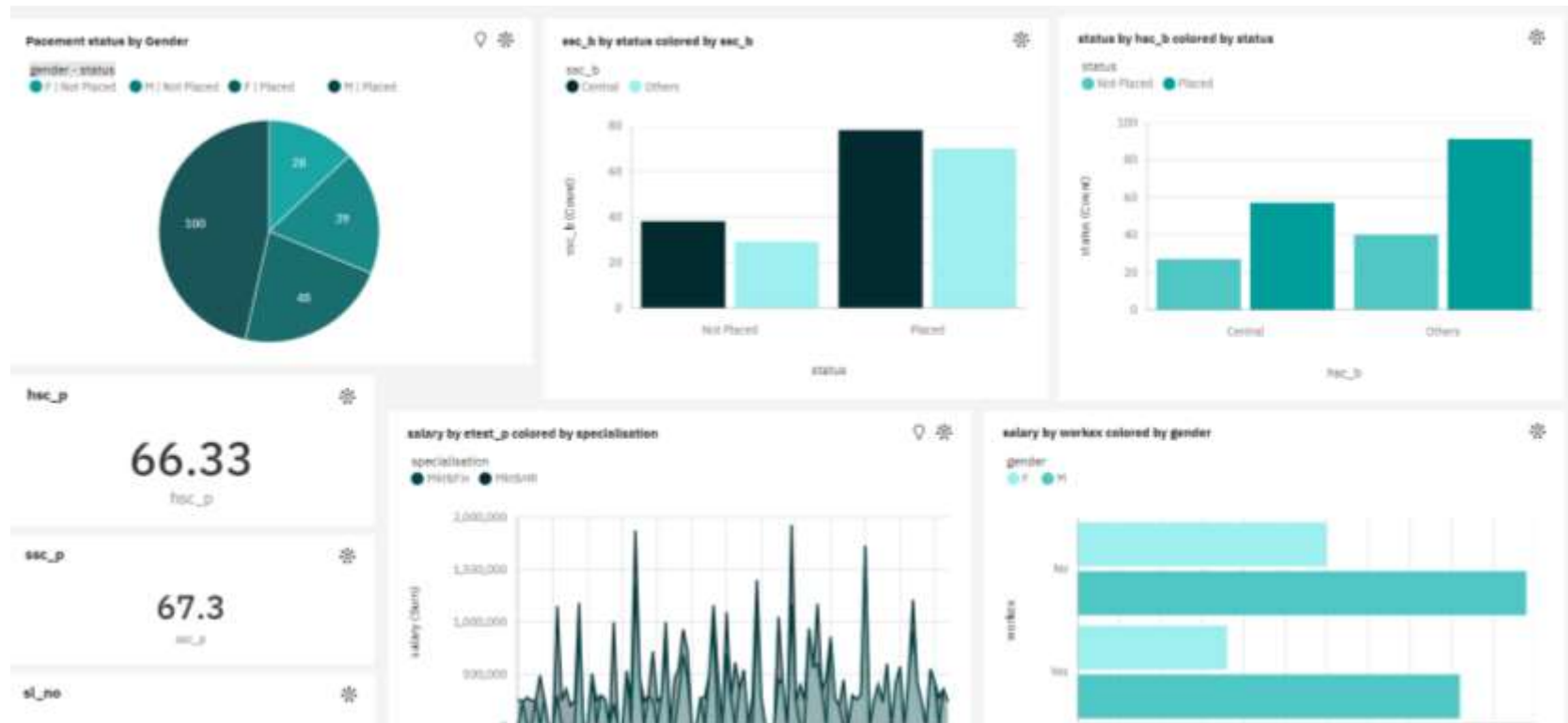**CSE**

RESULT AND DISCUSSION

Based on Placement

- The count is unusually high when gender - status is M|Placed.
- M|Placed is the most frequently occurring category of gender - status with a count of 100 items with status values (46.5 % of the total).
- The total number of results for status, across all gender - status, is 215.

Placement status by Gender

gender - status
F | Not Placed   M | Not Placed   F | Placed   M | Placed

No visualization selected

Select a visualization with analytics support to view and manage the analytics settings.
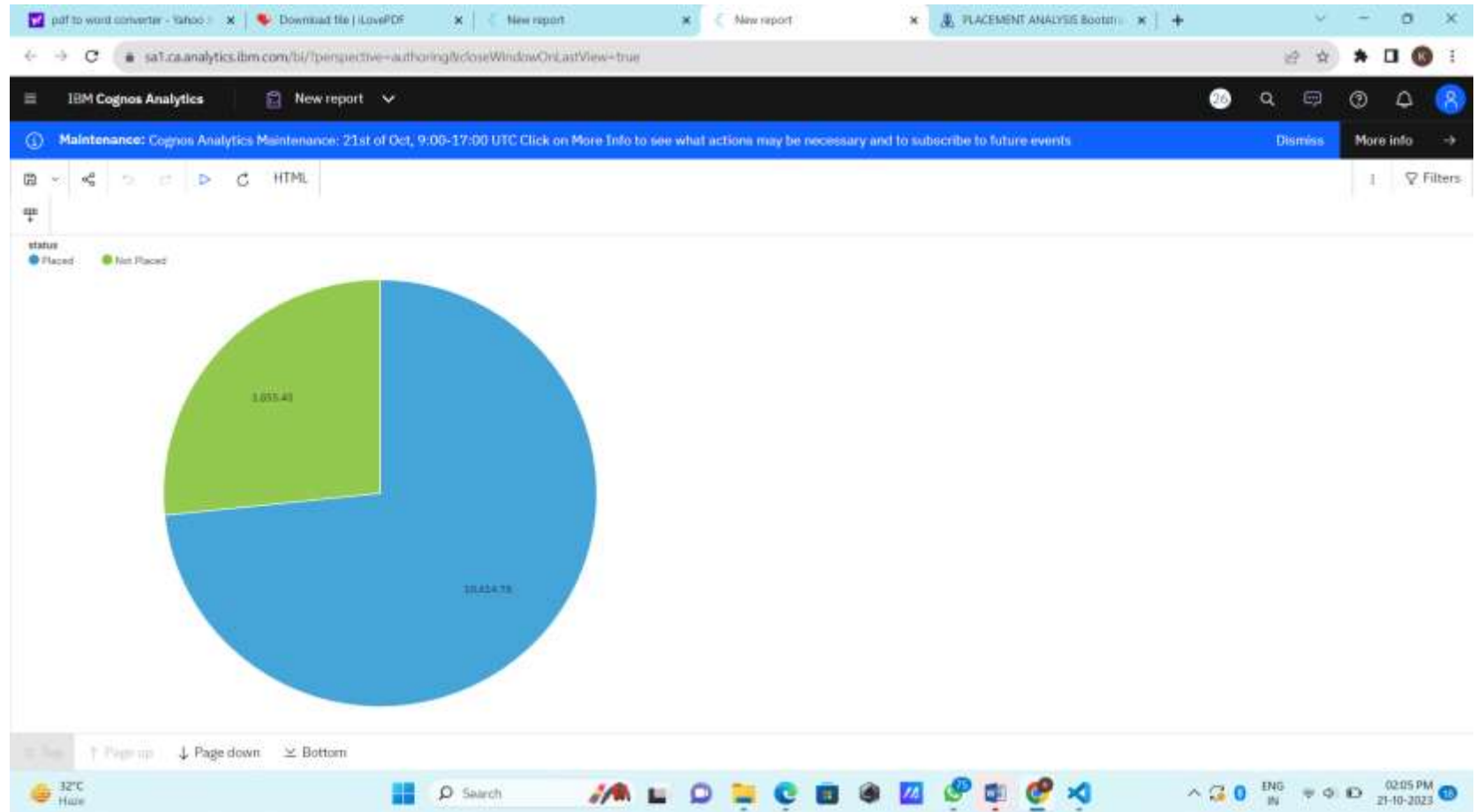
RESULT AND DISCUSSION

CONCLUSION

The goal of this project is to analyze the Placement dataset. The provided dataset is first checked for null values and the columns with null values are identified using Python. The dataset is uploaded to the database using the IBM cloud and the database is connected to the IBM Cognos Analytics tool. In the IBM Cognos Analytics tool, the data module option is selected and the dataset is pre-processed (null values are replaced with valid values. Using this cleaned data module data exploration process is carried out, in which different visualizations are created. Using the cleaned data module, an interactive dashboard, report, and story are created in the IBM Cognos Analytics tool. Finally, the created dashboard, report, and story are embedded in the webpage by fixing the iframe code in the html code.

FUTURE SCOPE

- In future enhancement we would like to add more parameter metrics along with this project. It can be developed using Python and machine learning algorithms.

- After developing the code we can analyze the result accurately. Then we added the pages to our website. When we connect the website, we are visualization the dataset not only for literacy it will fit all types of datasets.

- we can easily visualize the dashboard, report, and story, helping people understand better.

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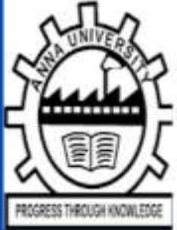
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[1.] Aishwarya S.Kendel (2008), TnP Vision: Automation and Analysis of Campus Placements in Colleges

[2.] Sonali Rawat (2012), Predictive Analytics for Placement of Student, Issue 7.

[3.] Riya Mehta,Siddhi Parekh,Ankit Parekh (2018), Results and Placement Analysis and Prediction using Data Mining and Dashboard .

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THANK YOU