A

Internship Report

On

Extraction of data from Text to Excel

Submitted by

Mrunmai Kulkarni

*Of T.E (Computer Engineering- Course 2019) having Examination Seat No. T400950161 and Roll No.TB13 in partial fulfilment for the award of degree Bachelor of Engineering in Computer Engineering for Academic Year 2024-2025*

*Under the guidance of*

Prof. Shital Wadaganve



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Academic Year 2024-2025



**Department of Computer Engineering**

***Certificate***

This is to certify that, the Internship Report entitled “Extraction of data from Text to Excel.” submitted by, of Third Year having Examination Seat No. T400950161 and Roll No. TB13 , is a bonafide work completed under my supervision and guidance in partial fulfilment for award of degree of Bachelor of Engineering in the branch Computer Engineering of International Institute of Information Technology, Hinjewadi, Pune-57

**Prof. Shital Wadaganve**

**Internship Mentor**

**Dr. Ajitkumar Shitole Dr. Vaishali V. Patil**

**Head of Department Principal**

**Acknowledgment**

It gives me great pleasure in presenting the Internship report on **‘**Extraction of data from Text to Excel**.’**I would like to take this opportunity to thank my internship mentor Prof. Shital Wadaganve for giving me all the help and guidance I needed. I am grateful to her for her kind support. Her valuable suggestions were very helpful.

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Mrunmai Kulkarni

CLASS:- TE(Computer Engineering)

ROLL NO. :-TB13

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**Company Details-**

* Name- Tata Technologies Limited
* Address- BLUE RIDGE, Tata Technologies Ltd,5th Floor IT9 Building, SEZ Qubix Business Park Pvt Ltd Plot no 2, Township, Phase I, Hinjawadi Rajiv Gandhi Infotech Park, Hinjawadi, Pune, Maharashtra 411057

* Team Details:
* Manager Name- Mr. Mahesh Bendale
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* Internship domain- Data Analysis
* Duration Of Internship - 3 months
* Nature of Work- Offline
* Are they providing placement – No

**Abstract**

This report explains what I learned and did during my internship in Data Analysis at Tata Technologies Ltd. The internship provided me with an opportunity to apply theoretical knowledge in a real-world setting and gain practical experience in handling data-centric tasks. My primary responsibilities included data cleaning, data preprocessing, and developing interactive dashboards using Power BI. I worked with raw datasets, identified inconsistencies, handled missing values, and transformed the data into structured formats suitable for analysis.

I learned how to fix messy data, find missing values, and prepare it for analysis. I also explored the data to find patterns and trends that could help in making good decisions. Utilizing Power BI, I designed and deployed visualizations that presented complex information in a clear and accessible manner for non-technical stakeholders. This not only improved my technical proficiency in data tools but also enhanced my ability to communicate analytical results effectively.

This internship helped me improve my skills in working with data and tools like Power BI. It also gave me a better idea of how data is used in real companies to solve problems and make smart choices. Overall, it was a great learning experience and helped me grow in the field of data analysis.

**Objectives**

* Gain practical experience in the field of data analysis.
* To learn how to clean, process, and organize raw data for analysis.
* To understand and apply data visualization techniques using Power BI.
* To improve problem-solving and analytical thinking skills.
* To learn how data supports decision-making in real-world projects.
* To develop the ability to present data insights clearly and effectively.
* To work with a professional team and understand how data analysis fits into business operations.

**Introduction**

This report provides a detailed overview of my internship experience in the field of data analysis. The internship was conducted at Tata Technologies from 13th Feb 2025 – 8th May 2025. It served as a great opportunity to apply the theoretical knowledge gained during my academic studies in a real-world work environment.

During the internship, I worked on various tasks such as data cleaning, data processing, and developing dashboards using Power BI. These activities helped me understand the complete data analysis process, from working with raw data to presenting useful insights through visualizations. I also learned how data plays a major role in helping organizations make informed decisions.

In addition to technical learning, this internship helped me grow personally and professionally. I adapted to the corporate work culture, learned how to collaborate with team members, and improved my communication skills. I also got the chance to make new connections with professionals in the field, which gave me insights into how teamwork and networking are important in a professional setting.

**Design and Methodology**

The application is designed to provide a simple and interactive interface for users to convert raw text data into a clean Excel sheet. The entire process is built using Python and the Tkinter library for GUI development.

1. User Interface (Tkinter): A pop-up window is displayed with a button labeled “Select a text file.” When clicked, the user can browse and select the input text file from their device. The selected file name is then shown on the screen.
2. File Handling: After selecting the input file, another pop-up prompts the user to select the location and name of the output Excel file. The application uses filedialog from Tkinter to perform this action.
3. Data Cleaning and Processing:
   * The selected text file is read using Pandas DataFrame.
   * Unwanted namespaces and unnecessary columns are removed to clean the data.
   * The program searches for a specific keyword in the data, as specified in the script or interface.
   * Cleaned and filtered data is then stored in a new DataFrame.
4. Export to Excel: The processed data is saved to an Excel file using pandas.to\_excel() function.
5. Confirmation Message: Once the process is completed, a message box appears saying "Process Completed," and the final output file is saved at the chosen location.

**Implementation**

**Task 1: Text File to Excel file:**

The user will give input as text file and get output as excel file.

Using Python in VS Code firstly clean the data by removing namespaces and the columns that are not required. Using data frame read the given data and look for the keyword specified. Used Tkinter for GUI.

Steps:

1] User is provided with a macro file. When you run the file, a pop up will appear.

2] A button indicates “ Select a text file”. User can select a text file from his/her device as input.

3] The name of the file which the user has selected will appear.

4] After that next window will appear, which contains a pop-up saying, “Select an excel file”.

5] Name of the selected file will appear. Open this file.

6] A pop-up saying process is completed will appear and your output file will be saved.

Hence, user will be able to see the extracted data in the form of an excel file.

This application processes raw data cleans and exports it as an excel sheet to ensure organized output. It helps in reducing manual effort, is less time-consuming and efficient.

**Task 2: Dashboard using Power BI:**

Created a dashboard using power BI tool.

The dashboard contains Employee attendance and performance visuals.

1] User can select if you want to select for employee or select for team using the button.

2] User can select the Quarter and Month they want to see the data visuals of.

3] User can select the Employee name from the dropdown.

4] This will show the visuals of Employee efficiency i.e. the missed delivery and on-time delivery by the employee.

5] Another visual containing the Attendance of particular employee is displayed in the form of a Donut Chart.

6] A new dashboard only for the team visuals which contains the drop down to select month and quarter.

7] User can see the team efficiency and team attendance through the visuals line-clustered charts and donut charts.

In this way we can use Power BI that helps show data in an easy-to-understand way using charts and visuals. For employee as well as team attendance and efficiency, Power BI can take data from Excel or other sources and show who was present, who was absent, and how many hours each team worked. It helps managers quickly see which teams are working well and where there might be problems. This makes it easier to take better decisions and improve how work is done in the company.

**Future Enhancement**

In the future, I aim to explore more real-world projects to gain deeper industry exposure and practical understanding. I would like to improve my communication and teamwork skills by engaging more actively with colleagues and mentors. Taking on more challenging tasks will help me strengthen my problem-solving abilities and boost my confidence. I also plan to work on time management to handle multiple responsibilities more efficiently. Attending internal training sessions, seeking regular feedback, and connecting with professionals in the workplace will support my continuous learning and growth. Additionally, I want to adapt more quickly to new work environments and focus on identifying long-term goals and areas of interest for future specialization.

**Conclusion**

This project successfully demonstrates a simple yet effective solution for converting raw text files into clean Excel sheets using Python. With the help of Tkinter, the application offers an easy-to-use interface that guides the user through the process step by step. It automates the data cleaning task, saves time, reduces manual effort, and ensures consistent output. The application is useful for users who work with large volumes of unstructured data and need a reliable tool to organize and export it efficiently. Power BI makes it easy to understand employee attendance and work efficiency through clear visuals. It helps managers save time, find issues quickly, and improve team performance. Using Power BI leads to better planning and smarter decisions based on real data.

**Internship Offer Letter**



