

Project Walkthrough

Upload the PDF files

The screenshot shows the 'Data Upload & Import' interface. At the top, there are three tabs: 'PDF Upload' (selected), 'Image/Scanned PDF', and 'Upload Settings'. Below the tabs, the 'Upload PDF Files' section is visible. It includes a file upload area with a cloud icon and the placeholder 'Drag and drop files here Limit 200MB per file • PDF'. A file named 'test_employee_data.pdf' (1.9KB) is listed with a delete 'X' button. A green success message at the bottom states '1 file(s) uploaded successfully'. In the 'Data Format Detection' section, there's a 'Select delimiter type:' dropdown with 'Auto-detect' selected. Other options include 'Comma (,), Semicolon (;), Colon (:), Tab, and Mixed'. A blue 'Analyze PDF Structure' button is present. At the bottom right, there's a 'Manage' button.

Click analyze the pdf structure to analyze the contents in the pdf and find the column names and other details.

The screenshot shows the 'Detected Structure' analysis results. A large JSON object is displayed, representing the detected fields and their types from the uploaded PDF. Key parts of the JSON include:

```
{
  "detected_fields": [
    "EmpID",
    "Name",
    "Department",
    "Role",
    "Salary"
  ],
  "field_types": {
    "EmpID": "string",
    "Name": "string",
    "Department": "string",
    "Role": "string",
    "Salary": "number"
  },
  "delimiters": [
    ","
  ],
  "structure": "tabular",
  "confidence": 50
}
```

And get the sample data preview which could be downloaded in excel format

Sample Data Preview					
	EmpID	Name	Department	Role	Salary
0	E001	Amit Sharma	IT	Software Engineer	85,000
1	E002	Neha Verma	HR	HR Manager	78,000
2	E003	Rahul Mehta	Finance	Accountant	72,000
3	E004	Priya Singh	IT	Data Analyst	82,000
4	E005	Arjun Patel	Sales	Sales Executive	65,000
5	E006	Sneha Kapoor	Marketing	Marketing Lead	90,000
6	E007	Vikas Rao	IT	DevOps Engineer	88,000
7	E008	Anjali Desai	Finance	Financial Analyst	76,000
8	E009	Rohan Gupta	HR	Recruiter	60,000
9	E010	Kavya Iyer	Sales	Sales Manager	95,000

Controlling the upload settings for different requirements.

The screenshot shows a user interface for managing data uploads. At the top, there are three tabs: 'PDF Upload' (disabled), 'Image/Scanned PDF' (disabled), and 'Upload Settings' (selected). Below the tabs, there is a section titled 'Upload Settings' with a gear icon. Under this section, there are three checked checkboxes: 'Auto-process on upload', 'Enable duplicate detection', and 'Auto-mask sensitive data'. To the right of these checkboxes are two input fields: 'Max file size (MB)' set to 50, and 'Default encoding' set to UTF-8. Further down are two dropdown menus: 'Date format' set to 'Auto-detect' and another dropdown next to it.

Performing data preprocessing and transformation techniques on the data for eg: mapping the column names to retrieve the desired data and drop the rest or combine related fields into one column (first name and last name = name column), performing data cleaning for eg: if there is any missing data then replacing it with the mean/median/mode values of the column and then exporting the transformed data.

Data Processing & Transformation

Column Mapping Data Cleaning Transformations Export

Custom Column Mapping

Define how you want to organize your Excel output

Current Columns

```
[ { 0 : "EmpID", 1 : "Name", 2 : "Department", 3 : "Role", 4 : "Salary" } ]
```

Create Custom Mappings

Number of output columns
4

Column 1 Configuration

Output column name
Name

Source columns to combine
Name

Separator (if combining)

Transformation
Uppercase

✓ Mapping applied successfully!

	Name	Department	Role	Salary
0	AMIT SHARMA	IT	SOFTWARE ENGINEER	85,000
1	NEHA VERMA	HR	HR MANAGER	78,000
2	RAHUL MEHTA	FINANCE	ACCOUNTANT	72,000
3	PRIYA SINGH	IT	DATA ANALYST	82,000
4	ARJUN PATEL	SALES	SALES EXECUTIVE	65,000
5	SNEHA KAPOOR	MARKETING	MARKETING LEAD	90,000
6	VIKAS RAO	IT	DEVOPS ENGINEER	88,000
7	ANJALI DESAI	FINANCE	FINANCIAL ANALYST	76,000
8	ROHAN GUPTA	HR	RECRUITER	60,000
9	KAVYA IYER	SALES	SALES MANAGER	95,000

Data Processing & Transformation

Column Mapping Data Cleaning Transformations Export

Data Cleaning

Missing Values

	Column	Missing	Percentage
0	Name	0	0
1	Department	0	0
2	Role	0	0
3	Salary	0	0

Handle missing values
Keep as is

Duplicate Detection

Duplicate Rows
0

Data Types

	Column	Type
0	Name	object
1	Department	object
2	Role	object
3	Salary	int64

Data Processing & Transformation

Column Mapping Data Cleaning Transformations Export

Advanced Transformations

Select transformation
Text Extraction (Regex)

Select text column
Name

Regex pattern
(\d+)

New column name
Extracted

Extract

Data Processing & Transformation

Column Mapping Data Cleaning Transformations Export

Export Data

Excel Export Options

Include dashboard charts
 Include summary sheet
 Apply professional formatting

Excel filename
employee_data.xlsx

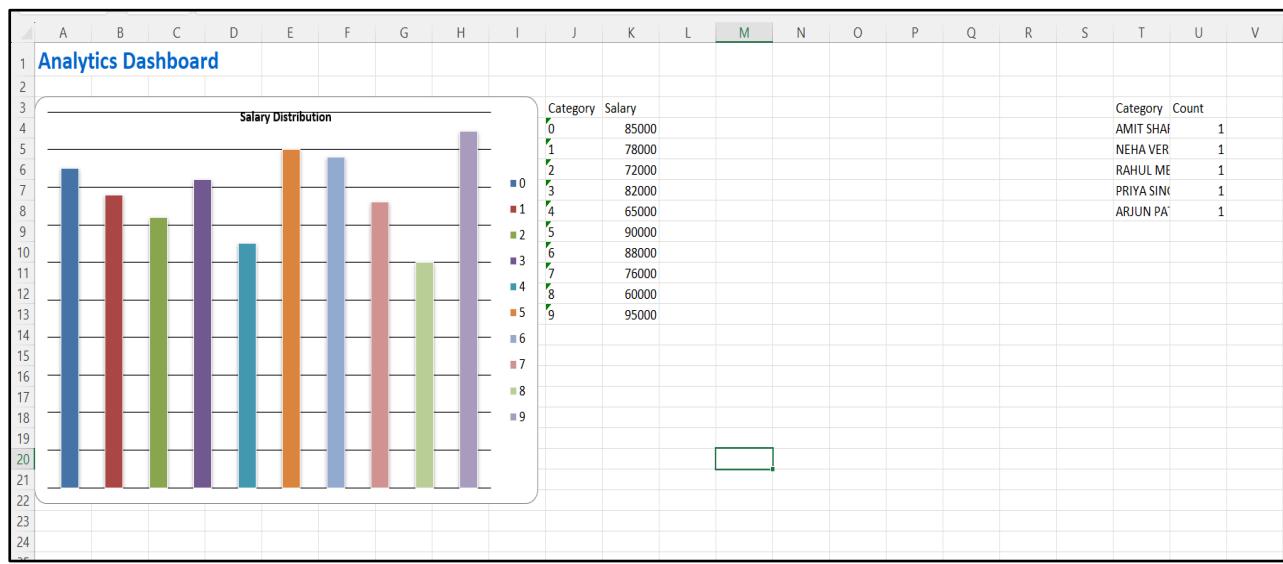
Generate Excel

Dashboard Export (PDF/Word)

Select format
 PDF
 Word (DOCX)

Generate Dashboard Report

exported excel file with analytics dashboard and data summary report



Data Summary Report

Generated on: 2026-02-11 15:30:38

Dataset Overview

Total Records	12
Total Columns	5
Numeric Columns	1
Text Columns	4
Missing Values	12
Duplicate Rows	0

Numeric Columns Statistics

Column	Count	Mean	Median	Std Dev	Min	Max
Salary	12.00	79,000.00	80,000.00	10,719.57	60,000.00	95,000.00

A	B	C	D	E	F
1	Name	Department	Role	Salary	Extracted
2	AMIT SHARMA	IT	SOFTWARE ENGINEER	#####	
3	NEHA VERMA	HR	HR MANAGER	#####	
4	RAHUL MEHTA	FINANCE	ACCOUNTANT	#####	
5	PRIYA SINGH	IT	DATA ANALYST	#####	
6	ARJUN PATEL	SALES	SALES EXECUTIVE	#####	
7	SNEHA KAPOOR	MARKETING	MARKETING LEAD	#####	
8	VIKAS RAO	IT	DEVOPS ENGINEER	#####	
9	ANJALI DESAI	FINANCE	FINANCIAL ANALYST	#####	
10	ROHAN GUPTA	HR	RECRUITER	#####	
11	KAVYA IYER	SALES	SALES MANAGER	#####	
12	MANISH JAIN	IT	BACKEND DEVELOPER	#####	
13	SIMRAN KAUR	MARKETING	SEO SPECIALIST	#####	
14					
15					
16					

Data Processing & Transformation

🔧 Column Mapping 🔪 Data Cleaning 🎨 Transformations **Export**

Export Data

Excel Export Options

- Include dashboard charts
- Include summary sheet
- Apply professional formatting

Excel filename: employee_data.xlsx

Dashboard Export (PDF/Word)

Select format:

- PDF
- Word (DOCX)

Generate Dashboard Report

PDF report generated!

Download PDF

Analytics Dashboard Report

Generated on February 11, 2026

Executive Summary

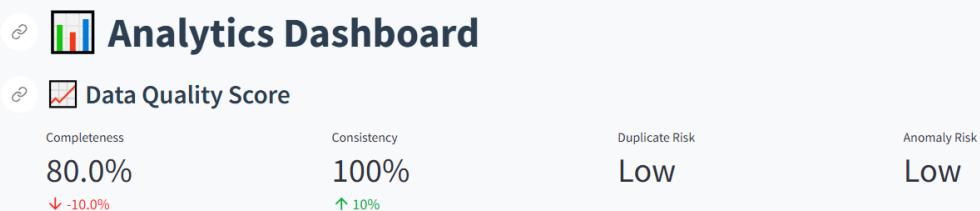
Metric	Value
Total Records	12
Total Columns	5
Data Completeness	80.0%
Duplicate Records	0

Data Quality Analysis

Missing Values Found: 1 columns have missing data

Column	Missing Count	Percentage
Extracted	12	100.0%

Viewing the analytics dashboard for better analysis of the data and looking for trends and anomalies in the data



Overview Trends Anomalies What-If Analysis Deep Dive

Dataset Overview

Total Records	Total Columns	Numeric Columns	Memory Usage
12	5	1	0.00 MB

Quick Analytics

Select column for analysis

Name

Unique Values

12

Most Common

AMIT SHARMA

Top 10 Name

Name	Count
AMIT SHARMA	1
NEHA VERMA	2
RAHUL MEHTA	3
PRIYA SINGH	4
ARJUN PATEL	4
SNEHA KAPOOR	5
VIKAS RAO	6
ANJALI DESAI	7
ROHAN GUPTA	8
KARTIK CHAUHAN	8

Overview Trends Anomalies What-If Analysis Deep Dive

Anomaly Detection

No anomalies detected - Data looks good!

Statistical Outliers

Select column for outlier detection

Salary

Detection method

IQR Z-Score

Outliers Found

0

What-If Simulator

Simulate changes and see their impact on your data

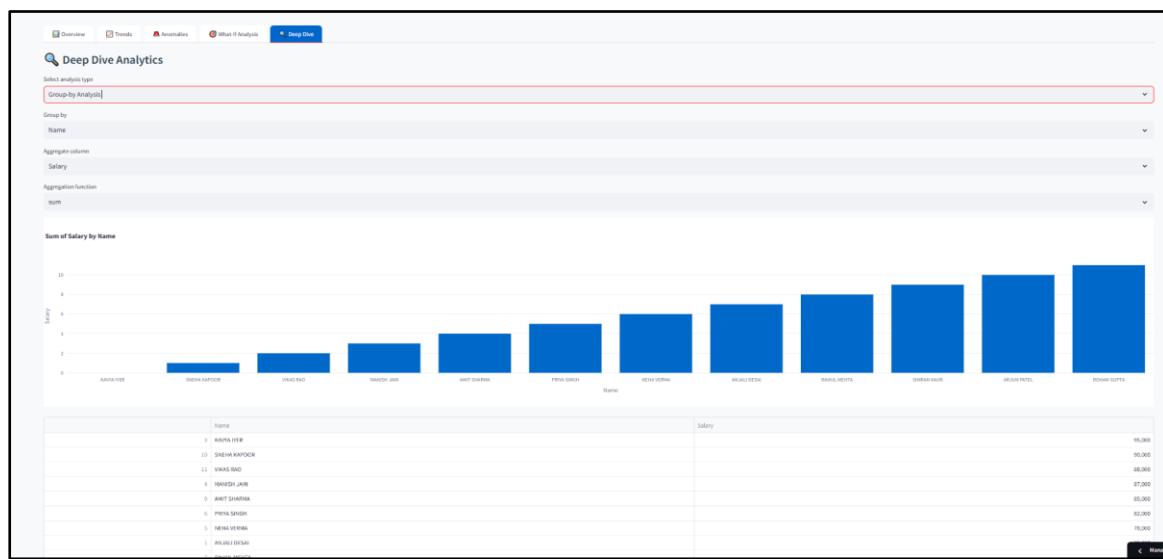
Select column to modify: Salary

Modification type: Percentage Increase (radio button selected)

Change (%): 10

Impact Analysis

Current Total	New Total	Current Average	New Average
948,000.00	1,042,800.00	79,000.00	86,900.00
	↑ 94,800.00		↑ 7,900.00



Using ai assistant to answer questions related to the data

AI Assistant

Ask me anything about your data! I can help with analysis, insights, and data queries.

Data Summary

- Total Records: 12
- Total Columns: 5

Numeric Columns: 1

- Salary: Mean = 79000.00, Range = [60000.00, 95000.00]

Text Columns: 4

- EmpID: 12 unique values
- Name: 12 unique values
- Department: 5 unique values

Quick Actions

[Data Summary](#) [Find Insights](#) [Show Trends](#) [Detect Issues](#)

Type the quick actions here.../Ask a question about your data...

sum of salary

Sum of Salary: 948,000.00

Quick Actions

Data Summary Find Insights Show Trends Detect Issues

Type the quick actions here.../Ask a question about your data... ➤

Making the data secure by analysing the sensitive data and masking the data based on desired mask rule and hence it encrypts the data

Data Governance & Compliance

Data Masking Audit Log Access Control

Sensitive Data Masking

⚠ Detected potentially sensitive columns

Salary - salary
Confidence: 70%

Masking method for Salary

Partial Mask

Apply Masking

Salary - salary
Confidence: 70%

Masking method for Salary

Partial Mask

Full Mask

Hash

Tokenize

None

encrypted salary field

Apply Masking

Masking applied to Salary

Masked Data Preview

	Name	Department	Role	Salary	Extracted
0	AMIT SHARMA	IT	SOFTWARE ENGINEER	****	None
1	NEHA VERMA	HR	HR MANAGER	****	None
2	RAHUL MEHTA	FINANCE	ACCOUNTANT	****	None
3	PRIYA SINGH	IT	DATA ANALYST	****	None
4	ARJUN PATEL	SALES	SALES EXECUTIVE	****	None
5	SNEHA KAPOOR	MARKETING	MARKETING LEAD	****	None
6	VIKAS RAO	IT	DEVOPS ENGINEER	****	None
7	ANJALI DESAI	FINANCE	FINANCIAL ANALYST	****	None
8	ROHAN GUPTA	HR	RECRUITER	****	None
9	KAVYA IYER	SALES	SALES MANAGER	****	None

Checking for audit logs and access controls , sending automatic alerts and viewing the predictive analytics/ performances of the data and controlling setting and user preferences

Data Governance & Compliance

Audit Log

	timestamp	action	user	details	session_id
0	2026-02-11 14:53:15	Data Upload	Manager	Uploaded 1 PDF file(s)	session_20260211
1	2026-02-11 15:23:20	Data Upload	Manager	Uploaded 1 PDF file(s)	session_20260211
2	2026-02-11 15:30:38	Excel Export	Manager	Generated employee_data.xlsx	session_20260211

Export Audit Log

Data Governance & Compliance

Role-Based Access Control

Current Role: Manager

Your Permissions

- View All Data
- View Headcount
- Basic Analytics
- Edit Data
- Delete Data
- Export Data
- Manage Users
- View Salary
- Mask Data

Alerts & Automation

Email Alerts

Configure Email Alerts

Enable email notifications
Recipient email
hr@company.com

Alert Triggers

New PDF uploaded
 Data processing completed
 Anomalies detected
 Data quality score below threshold
Quality score threshold (%)
0 100

Save Alert Settings

Predictive Analytics

Forecasting Predictions Trend Projections

Predictive Insights

Hiring Trend Forecast

Based on historical data, predict future hiring needs

Metric	Value	Change
Predicted Hires (Next Quarter)	15-18	↑ +3
Attrition Risk	5.2%	↓ -1.1%
Headcount Growth	+12%	↑ +2%

Salary Budget Projection

Salary Budget Projection - Next 12 Months

The chart shows a projected increase in salary budget over 12 months. The Y-axis represents 'Budget (\$)' from 0 to 1.5M. The X-axis shows months from Mar 2026 to Mar 2027. The line starts at approximately 1M in Mar 2026 and rises steadily to about 1.5M by Mar 2027.

Month	Budget (\$)
Mar 2026	1M
Mar 2027	1.5M

Advanced Trend Analysis

Forecasting Predictions Trend Projections

Attrition Prediction Model

ML model predicts employee attrition risk

Attrition Risk Factors

A bar chart illustrating the impact of different attrition risk factors. The Y-axis is 'Impact' (0-4) and the X-axis is 'Factor'. The factors and their approximate impacts are: Tenure < 1 year (1), No promotion in 2 years (2), Salary below market (2.5), Low engagement score (3), and Manager change (4).

Factor	Impact
Tenure < 1 year	1
No promotion in 2 years	1
Salary below market	2
Low engagement score	3
Manager change	4

Recommended Actions

-  Review compensation for 15 employees below market rate
-  Career development discussions for 8 employees without recent promotion
-  Engagement survey for low-scoring team members
-  Mentorship program for employees with new managers

Settings & Preferences

 User Preferences  Display  Advanced

User Preferences

Name	Timezone
John Doe	UTC
Email	Date Format
john.doe@company.com	YYYY-MM-DD
Department	Number Format
HR	1,234.56

 Save Preferences