IMARC Data^{2}Deck — Documentation

PowerPoint Automation Suite — User & Technical Documentation

Developed by: Harpinder Singh

Delivered to: IMARC

Version: v1.0.0 (Beta)

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Overview

IMARC Data^{2}Deck converts structured Excel data into formatted PowerPoint presentations automatically. It maps Excel cells and tables to placeholder tags inside a PowerPoint template, regenerates charts, updates tables, and can generate short AI-assisted slide summaries for overview slides.

Key Features

Intelligent Data Mapping

Automatic mapping of Excel cells and named ranges to placeholder tags in PowerPoint templates.

Dynamic Chart Generation

Regenerates charts using latest numeric data while preserving styling and layout.

Automated Navigation

Creates a table-of-contents / slide navigation summary based on generated slides.

Smart Placeholders

Context-aware text replacement and small content generation for slide titles and captions.

AI-Powered Insights

Optional short market summaries or insights generated from input data.

Brand Consistency

Retains template formatting, fonts, and color scheme for consistent branded slides.

How to Use

1. Prepare your Excel file: use clearly labelled headers in the first row of each table. Use named ranges for important blocks where possible.

2. Prepare a PowerPoint template: add placeholder tags (format: {{PLACEHOLDER_NAME}}) inside text boxes, table cells or notes where you want data to appear.

3. Upload both the Excel file and the PowerPoint template using the web UI and press 'Generate Professional Presentation'.

4. Track progress via the progress pane. When generation completes, the presentation will be available for download.

Placeholder Examples

Use double-curly placeholders in the template. Examples:

{{Company_Name}} {{Latest_Year}} {{Sales_Volume_Latest}} {{Unit}} {{CAGR_2019_2024}} {{Market_Overview}} {{Top_Region}}

Server Endpoints (example)

Endpoint	Description
/generate-with-progress	POST - form-data (excel_file, ppt_file, session_id) - Starts generation and writes progress to server
/progress/{session_id}	GET - returns JSON { step: int, status: 'active'|'completed'|'error', message: string }
/download-generated/{session_id}	GET - returns generated PPTX file as binary stream

Privacy & Data Handling

Uploaded files are processed server-side and should be removed after generation. Ensure the server follows company policies for temporary storage and deletion. Files containing sensitive information should not be uploaded unless permitted by IMARC policy.

Troubleshooting & FAQ

Q: My file failed to upload
A: Check file size (max 50MB) and allowed extensions (.xlsx, .xls, .pptx, .ppt). Use modern Excel formats where possible.

Q: Generated PPTX has wrong formatting
A: Ensure your template uses standard fonts embedded in the template and placeholder boxes have adequate space. Complex master slide elements may require adjustments.

Q: Progress shows 'error' step
A: Check server logs for the session_id or contact support with the session ID shown in the UI.

Support & Contact

For technical help or delivery queries, contact:

Support: support@imarcgroup.com

Developer: Harpinder Singh — harpindersingh529@gmail.com

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Delivery Notes & Short Terms

• This deliverable includes the web UI and generation backend as described.
• IMARC holds copyright of the delivered application. Developer retains attribution.
• Any production deployment should include secure file handling and retention policy configurations.

Changelog

v1.0.0 (Beta) — Initial delivery: upload & generate flow, progress tracking, direct download.