



# Advance Spreadsheet Assistance

Democratizing Data Analysis with AI

Presented by: [Your Team Name]

# The Data Challenge



Data is abundant, yet 70% of business users struggle with complex Excel formulas and Python scripting. This leads to hours wasted on manual cleaning and blocks non-technical users from critical insights.

Our solution bridges this gap using existing, proven technologies (LLMs + Python Pandas) to make high-level analysis accessible to everyone.

# Our Intelligent Web Platform

An intelligent web platform where you chat with your spreadsheet.



## Instant Cleaning

Removes duplicates and fixes formatting automatically.



## Natural Language Queries

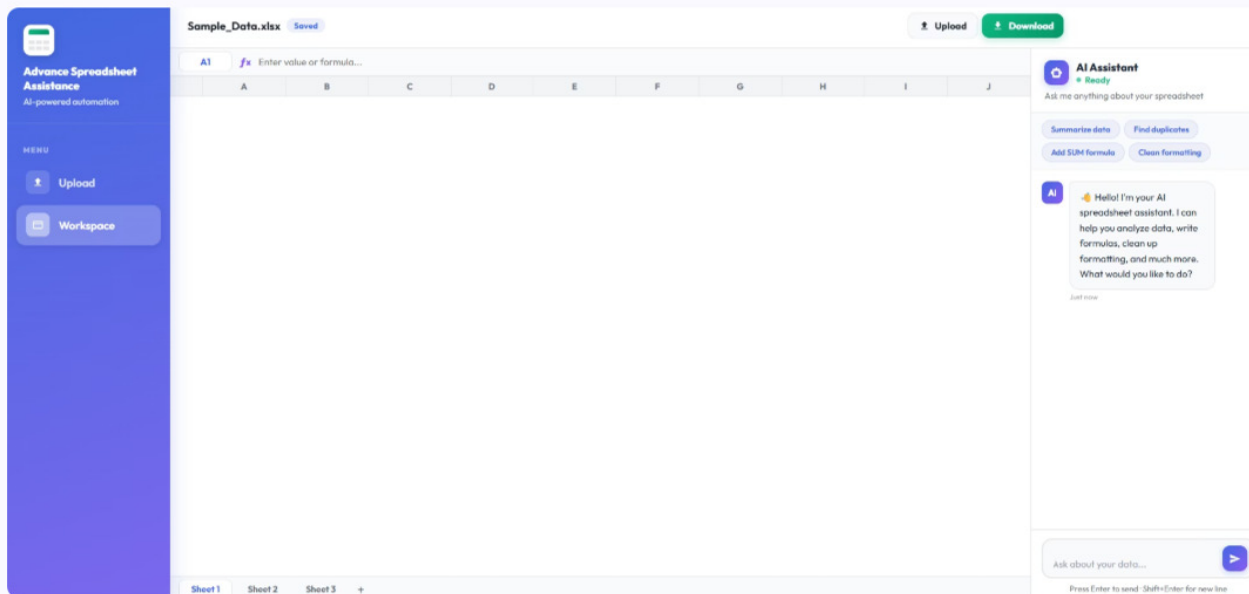
Ask "What is the sales trend?" instead of writing complex formulas.



## Zero Learning Curve

If you can send a text message, you can analyze data.

# Clean & Intuitive Interface



Our interface is designed for focus, offering a distraction-free workspace without cluttered ribbons or hidden menus.

The modern UI, featuring a glassmorphism design, feels professional and responsive, enhancing the user experience.

# AI Analyst Integration

The screenshot displays the 'Advance Spreadsheet Assistance' application. On the left is a blue sidebar with the title 'Advance Spreadsheet Assistance' and the tagline 'AI-powered automation'. Below the title are two buttons: 'Upload' and 'Workspace'. The main area shows a spreadsheet titled 'Sample\_Data.xlsx' with a 'Saved' status. The spreadsheet has columns A through J and rows 1 through 12. The data is organized as follows:

	A	B	C	D	E	F	G	H	I	J
1										
2		COURSE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY			
3		PROBABILIT & STA	9:00 to 10:30				12:40 to 2:05			
4			AB2 203				AB2 203			
5		MACHINE LEARNI	10:40 to 12:10		9:00 to 10:30					
6			AB2 207		AB2 207					
7		DBMS		11:40 to 1:10		10:40 to 12:10				
8				AB2 202		AB2 207				
9		DIGITAL ELECTRC			10:40 to 12:10		10:40 to 12:10			
10					AB2 205		AB2 205			
11		CRYPTOGRAPHY	3:50 to 5:15	3:50 to 5:15						
12			AB2 205	AB2 205						

On the right side of the spreadsheet is an 'AI Assistant' chat window. It has a header 'AI Assistant' with a 'Ready' status and the prompt 'Ask me anything about your spreadsheet'. Below the header are four buttons: 'Summarize data', 'Find duplicates', 'Add Sheet formula', and 'Clean formatting'. The chat area contains a message from the AI: 'The schedule covers classes from Monday to Friday. Each entry in the schedule specifies the course, the day of the week, the time slot, and the classroom number. For example, 'PROBABILIT & STATISTICS' is scheduled on Monday from 9:00 to 10:30 in room AB2 203 and on Friday from 12:40 to 2:05 in room AB2 205. All listed courses appear to have two scheduled sessions during the week.' Below this is a user question: 'any classes clash with one other in the time table?'. The AI responds: 'No class clashes were found in the timetable.' At the bottom of the chat window is a text input field with the placeholder 'Ask about your data...' and a 'Send' button. Below the input field is a small instruction: 'Press Enter to send. Shift+Enter for new line'.

Powered by Google Gemini 2.5 Flash, our AI understands context, not just keywords.

It performs complex reasoning, analyzing schedules, detecting clashes, and summarizing financial reports with ease.



# High Performance

Sample\_Data.xlsx

Upload Download Dashboard

Format Formula

AI Assistant

Ready

Ask me anything about your spreadsheet

Summarize data Find duplicates

Add SUM formula Clean formatting

Find duplicates

AI

No duplicate full customer records were found in the dataset.

All 'Customer id' values are unique, indicating no duplicate primary identifiers. All 'Email' addresses are unique.

The 'First Name' 'Sheryl' appears twice, but corresponds to different individuals (Sheryl Baxter and Sheryl Meyers), meaning there are no duplicate full names.

AI

Downloading updated CSV...

Ask about your data...

Press Enter to send. Shift+Enter for newline

	A	B	C	D	E	F	G	H	I	J		
1	1	DD37Cf93ae	Sheryl	Baxter	Rasmussen G	East Leonard	Chile	229.077.5154	397.884.0519	zunigavaness	2020-08-24	http://www.st
2	2	1EF7b82A4Cf	Preston	Lozano	Vega-Gentry	East Jimmys	Djibouti	5153435776	686-620-182b	vmatajcolon	2021-04-23	http://www.h
3	3	6P94679uDA	Ray	Berry	Murillo-Perry	Isabelboroug	Antigua and I	+1-539-402-4	(496)978-396	beckycorrah	2020-03-25	http://www.lc
4	4	SCef88FA16c	Linda	Olsen	Dominguez, I	Bensonview	Hile	001-808-617	+1-815-324-8	stanleyblackv	2020-06-02	http://www.g
5	5	053d585Ab6	Joanna	Bender	Marlin, Lang	West Priscilla	Slovakia (Slov	001-234-203	001-199-446	collinvalaradc	2021-04-17	https://goodv
6	6	2d08FB77EEz	Aimee	Downs	Steele Group	Chavezbarou	Bosnia and H	(283)437-388	999-728-1637	louis27egilbe	2020-02-25	http://www.b
7	7	EA4d304DfC	Darren	Peck	Lester, Wood	Lake Ana	Pitcairn Islan	(496)452-618	+1-247-266-C	tgatesjcantr	2021-08-24	https://www.i
8	8	0e04AFde9f	Brett	Mullen	Sanford, Dav	Kimport	Bulgaria	001-583-352	001-333-145	asnowjcolon	2021-04-12	https://hamr
9	9	C26E4dEEc4	Sheryl	Meyers	Browning-Sin	Robersonstox	Cyprus	854-138-4911	+1-448-910-2	mariahhangr	2020-01-13	https://www.i
10	10	8C281a503C	Michelle	Gallagher	Beck-Hendrix	Elaineberg	Timor-Leste	739.218.2516x	001-054-401	mdyergascot	2021-11-08	https://arias.r
11	11	216E205d6eE	Carl	Schroeder	Oconnell, Me	Shannonville	Guernsey	637-854-025	114.336.0784x	kirksalasrwe	2021-10-20	https://simmc
12	12	CEDec94deE	Jenna	Dodson	Hoffman, Rex	East Andrea	Vietnam	(041)737-384x	+1-556-888-2	mark428robl	2020-11-29	http://www.d
13	13	e35426E6DE	Tracey	Mata	Graham-Frai	South Joann	Tago	001-949-844	(855)713-8771	alex56gwalls	2021-12-02	http://www.b
14	14	A08ABaFBBE	Kristine	Cox	Carpenter-C	Jodyberg	Sri Lanka	786-284-335	+1-315-627-17	holdenmiranc	2021-02-08	https://www.i
15	15	6fFeaAb7xab	Faith	Lutz	Cartier-Hanci	Burchbury	Singapore	(781)861-7180	207-185-5661	cassieparrish	2022-01-26	http://stevens
16	16	8ca0b4BC8c	Miranda	Beasley	Singleton anc	Desireeshire	Oman	540.085.3135	+1-600-462-	vduncanspar	2022-04-12	http://acosta
17	17	a5DC21AE3a	Caroline	Foley	Winters-Men	West Adrienn	Western Salts	936.222.4746	001-469-948	hollgwendoly	2021-03-10	http://www.b
18	18	F8Aa9d6Dfcl	Greg	Maia	Valentine LLC	Lake Leslie	Mozambique	(701)087-241	(195)156-1861	jaredjuarez8	2022-03-26	http://pilts-cl
19	19	F160F5Db3Ef	Clifford	Jacobson	Simon LLC	Harmonview	South Georgi	001-151-330-	(748)477-7174	joseph26ajac	2020-09-24	https://mccor
20	20	0F60FF3Ddc	Joanna	Kirk	Mays-Mccorr	Jamesshire	French Polyn	(266)131-7001	(283)312-5571	tuckerangleig	2021-09-24	https://www.c

Sheet 1 Sheet 2 Sheet 3 +

Our optimized Python backend (Pandas) handles big data, processing large datasets without browser lag.

Real-time rendering ensures smooth scrolling, even with thousands of rows, by rendering only what you see.

# Security & Architecture

## Local-First Processing

Data processed in Python backend session, not stored permanently.

## Ephemeral Storage

Files cleared from memory after session ends.

## No AI Training

User data is NOT used to train the AI model (Enterprise-grade API privacy).

**Tech Stack:** FastAPI (Secure Backend) + Vanilla JS (Lightweight Frontend).

# Business Model

1

## Freemium Model

Basic features free for students and individuals.

2

## Pro Tier

Subscription for larger files (>50MB) and advanced export options.

3

## API Licensing

White-label technology for other SaaS platforms to embed "Chat with Data" features.





# Deployment & Scalability

## Deployment Strategy

- **Frontend:** Vercel / Netlify (Global CDN).
- **Backend:** Render / AWS Lambda (Serverless Python).

## Scalability

The architecture is stateless, allowing multiple backend instances (Docker Containers) to handle thousands of concurrent users without bottlenecks.

# Limitations & Future Scope

## Current Limitations

- Supports CSV and Excel only (no direct SQL database connection).
- Visualizations are text-described, not auto-plotted.

## Future Roadmap

- Add "Generate Chart" button.
- Team Collaboration (Multi-user editing).
- Mobile App version.

