

Gmail Mail Merge with Python & Excel

This project automates sending personalized emails (with attachments) to multiple recipients using Python, Gmail, and an Excel sheet.

Features

- Reads recipient data from Excel
- Sends personalized emails through Gmail SMTP
- Attaches resume or custom files to each email
- Marks emails as 'Sent' in the same Excel sheet
- Skips emails already marked as sent
- Supports graceful exit and error handling

Folder Structure

```
gmail-mail-merge-python/  
├─ mail_merge.py          # Main script  
├─ your_excel_file.xlsx   # Sample Excel file  
├─ requirements.txt       # Python package list  
├─ README.md             # Project documentation  
└─ .gitignore            # Exclude sensitive or unnecessary files
```

Getting Started

1. Clone the Repository

```
git clone https://github.com/yourusername/gmail-mail-merge-python.git  
cd gmail-mail-merge-python
```

2. Install Requirements

```
pip install -r requirements.txt
```

3. Prepare Your Excel File

Ensure your Excel file (`your_excel_file.xlsx`) includes these columns:

Company Name	Company_Mail_id	Attachment	Status
IBM	hr@ibm.com	path/to/resume.pdf	Sent or blank

✓ Only rows with Status blank will receive emails.

4. Set Your Gmail App Password

- Enable 2FA on your Gmail account
- Generate an [App Password](#)
- Use that in your script (never your real Gmail password)

5. Run the Script

```
python mail_merge.py
```

17 Example Console Output

- ✓ Row 1: Email sent to hr@ibm.com
- ⏮ Row 2: Already sent
- ✗ Row 3: Attachment not found

Security Notes

- Use `.gitignore` to avoid uploading real Excel data or credentials
- Do not share or commit your App Password
- Use environment variables or a `.env` file for better security

Future Improvements

- HTML formatted email body
- Resume failed email attempts
- Email preview mode before sending
- GUI support with Tkinter or Streamlit

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