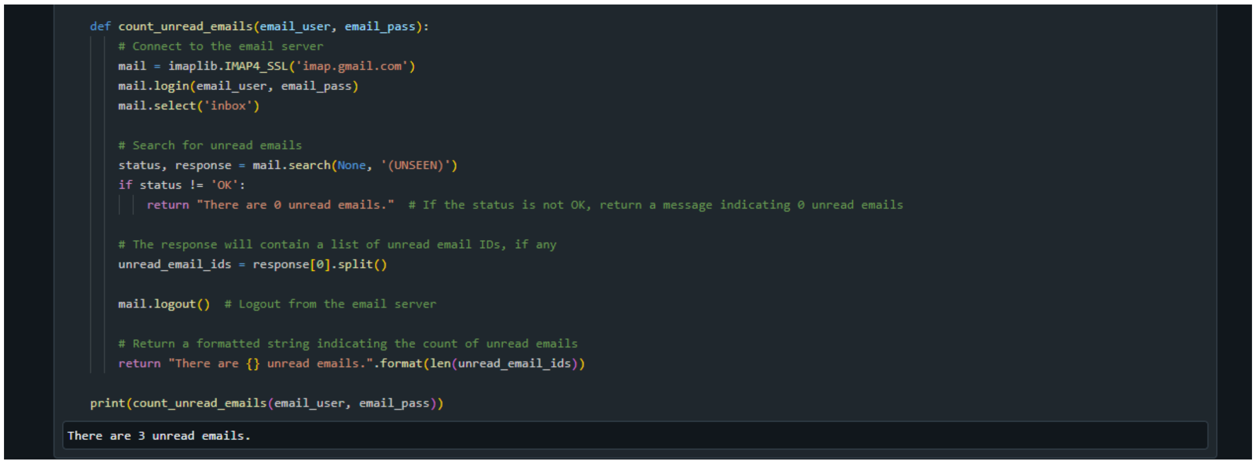
Use case: Email summarization is a streamlined process designed to manage your inbox more effectively by leveraging the capabilities of AI, particularly OpenAI's GPT model. This innovative approach aims to condense the content of unread emails, providing you with a concise summary of each, thus saving time and enhancing productivity.

Audience: C level suite managers

Steps:

- Config an app password with Google: How to create app passwords | Google Workspace Knowledge Center and store the password as a variable
- Use IMAP to reach my email inbox
- Verify that the api got through by counting the unread emails
- Parse unread emails from byes into raw utf8
- Pass in the raw unread emails into OpenAI prompt
- Ask chat gpt to summarize the emails
- Use SMTP to send the summary from myself to myself

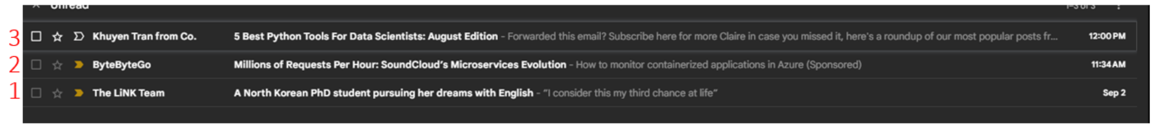
Count unread emails



```
def count_unread_emails(email_user, email_pass):
    # Connect to the email server
    mail = imaplib.IMAP4_SSL('imap.gmail.com')
    mail.login(email_user, email_pass)
    mail.select('inbox')

    # Search for unread emails
    status, response = mail.search(None, '(UNSEEN)')
    if status != 'OK':
        return "There are 0 unread emails."  # If the status is not OK, return a message indicating 0 unread emails

    # The response will contain a list of unread email IDs, if any
    unread_email_ids = response[0].split()

    mail.logout()  # Logout from the email server

    # Return a formatted string indicating the count of unread emails
    return "There are {} unread emails.".format(len(unread_email_ids))

print(count_unread_emails(email_user, email_pass))
```

```
There are 3 unread emails.
```

Unread emails

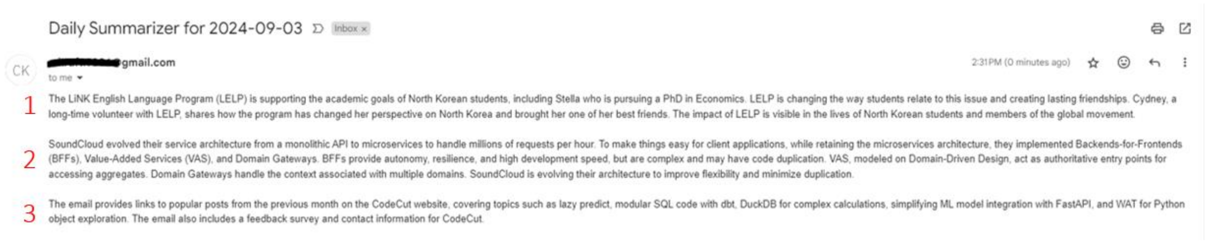


3 Khuyen Tran from Co. **5 Best Python Tools For Data Scientists: August Edition** - Forwarded this email? Subscribe here for more Claire in case you missed it, here's a roundup of our most popular posts fr... 12:00 PM

2 ByteByteGo **Millions of Requests Per Hour: SoundCloud's Microservices Evolution** - How to monitor containerized applications in Azure (Sponsored) 11:34 AM

1 The LiNK Team **A North Korean PhD student pursuing her dreams with English** - "I consider this my third chance at life" Sep 2

Summarized email sent to my inbox



Daily Summarizer for 2024-09-03 Inbox ×

CK [redacted]gmail.com 2:31PM (0 minutes ago)

to me

1 The LiNK English Language Program (LELP) is supporting the academic goals of North Korean students, including Stella who is pursuing a PhD in Economics. LELP is changing the way students relate to this issue and creating lasting friendships. Cydney, a long-time volunteer with LELP, shares how the program has changed her perspective on North Korea and brought her one of her best friends. The impact of LELP is visible in the lives of North Korean students and members of the global movement.

2 SoundCloud evolved their service architecture from a monolithic API to microservices to handle millions of requests per hour. To make things easy for client applications, while retaining the microservices architecture, they implemented Backends-for-Frontends (BFFs), Value-Added Services (VAS), and Domain Gateways. BFFs provide autonomy, resilience, and high development speed, but are complex and may have code duplication. VAS, modeled on Domain-Driven Design, act as authoritative entry points for accessing aggregates. Domain Gateways handle the context associated with multiple domains. SoundCloud is evolving their architecture to improve flexibility and minimize duplication.

3 The email provides links to popular posts from the previous month on the CodeCut website, covering topics such as lazy predict, modular SQL code with dbt, DuckDB for complex calculations, simplifying ML model integration with FastAPI, and WAT for Python object exploration. The email also includes a feedback survey and contact information for CodeCut.

Features to consider

- Have the summarizer list out who sent the email followed by paragraph of summary
- Organize the summarization by topics
- Have the summarizer flag …
  - Meeting invites/suggestions
  - Actions items