

However, it requires some configuration for less secure app access or using an app password if you have two-factor authentication enabled.

Gmail SMTP settings:

- SMTP server: smtp.gmail.com
- Port: 587 (TLS) or 465 (SSL)
- Authentication: Yes
- Security: TLS or SSL

Other SMTP Servers

- Outlook/Hotmail: smtp-mail.outlook.com, Port 587
- Yahoo Mail: smtp.mail.yahoo.com, Port 465 or 587
- Custom email servers: Check their documentation for SMTP details

Setting Up Your Raspberry Pi Environment for Sending Emails

Before coding, ensure your Raspberry Pi environment is ready.

Installing Necessary Python Libraries

Most email sending tasks can be accomplished using Python's built-in smtplib library, but additional libraries like email can help compose more complex messages.

```
```bash
```

```
sudo apt-get update
```

```
sudo apt-get install python3
```

```
```
```

For email composition:

```
```python
```

```
pip3 install email
```

...

However, the email module is part of the standard library, so no additional installation is typically needed.

## Basic Python Script to Send an Email

Here's a simple example demonstrating how to send an email using Python's smtplib.

### Sample Code

```
```python

import smtplib

from email.mime.text import MIMEText

from email.mime.multipart import MIMEMultipart

Email account credentials

sender_email = "[email protected]"

password = "your_password"

receiver_email = "[email protected]"

Create the email message

message = MIMEMultipart()

message["From"] = sender_email

message["To"] = receiver_email

message["Subject"] = "Test Email from Raspberry Pi"

body = "Hello! This is a test email sent from my Raspberry Pi using Python."

message.attach(MIMEText(body, "plain"))
```



```
filename = "sensor_data.csv"

with open(filename, "rb") as attachment:

    part = MIMEBase("application", "octet-stream")

    part.set_payload(attachment.read())

    encoders.encode_base64(part)

    part.add_header(

        "Content-Disposition",

        f"attachment; filename= {filename}",

    )

    message.attach(part)

...

```

Sending HTML Emails

Compose rich content with HTML:

```
```python

html = """\

```

## **Sensor Alert**

The temperature has exceeded the threshold!

```
"""

message.attach(MIMEText(html, "html"))

...

```

## **Automating Email Sending with Raspberry Pi**











































