

## RESUME SHORTLIST PROGRAM THROUGH EMAIL

### SOURCE CODE:

```
import os
import nltk
import smtplib
from email.mime.text import MIMEText
from email.mime.multipart import MIMEMultipart
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize

# Folder containing resumes
folder_path = "D:/Saketh/Python Programming/sampleprograms/NLP/NLPLab"
files = [f for f in os.listdir(folder_path) if f.endswith('.txt')]

# Stopwords setup
nltk.download('punkt_tab', quiet=True)
nltk.download('stopwords', quiet=True)
stop_words = set(stopwords.words('english'))

# Email setup
sender_email = "bsaketh394@gmail.com" # Your email address
sender_password = "uaan azho eojl xkyi" # Use App password if using Gmail
smtp_server = "smtp.gmail.com"
smtp_port = 587

# Keywords for shortlisting
keywords = {"python", "java", "javascript", "developer", "engineer"}

def send_email(to_email, subject, body):
    try:
        message = MIMEMultipart()
        message['From'] = sender_email
        message['To'] = to_email
        message['Subject'] = subject
        message.attach(MIMEText(body, 'plain'))

        with smtplib.SMTP(smtp_server, smtp_port) as server:
            server.starttls()
            server.login(sender_email, sender_password)
            server.sendmail(sender_email, to_email, message.as_string())
            print(f"Email sent to {to_email}")
    except Exception as e:
        print(f"Failed to send email to {to_email}. Error: {e}")

# Process resumes
for file in files:
```

```

file_path = os.path.join(folder_path, file)
with open(file_path, 'r', encoding='utf-8') as f:
    content = f.read()

lines = content.split('\n')
candidate_name, candidate_email = "", ""

for line in lines:
    if line.lower().startswith("name:"):
        candidate_name = line.replace("Name:", "").strip()
    elif line.lower().startswith("contact:"):
        candidate_email = line.replace("Contact:", "").strip()

if not candidate_name or not candidate_email:
    print(f"Skipping {file}: Missing name or email.")
    continue

resume_content = ' '.join([line for line in lines if not line.lower().startswith(("name:", "contact:"))])
tokens = word_tokenize(resume_content.lower())
filtered_tokens = {word for word in tokens if word not in stop_words}

matched_keywords = keywords & filtered_tokens

if len(matched_keywords) >= 2:
    subject = "Congratulations! You have been shortlisted"
    body = (f"Dear {candidate_name},\n\n"
           "We are pleased to inform you that your resume has been shortlisted for the next stage in the"
           "hiring process. "
           "Our team will reach out soon with further details.\n\n"
           "Best Regards,\nQUALCOMM")
    send_email(candidate_email, subject, body)
else:
    subject = "Application Status Update"
    body = (f"Dear {candidate_name},\n\n"
           "Thank you for applying. After careful consideration, we regret to inform you that your application"
           "has not "
           "been shortlisted at this time. We appreciate your interest and encourage you to apply for future"
           "opportunities.\n\n"
           "Best Regards,\nQUALCOMM")
    send_email(candidate_email, subject, body)

```

## OUTPUT:

Email sent to vamsib0609@gmail.com  
 Email sent to Vivek.bavandlapally@gmail.com  
 Email sent to praveenmeda143@gmail.com  
 Email sent to bachukushal28@gmail.com  
 Email sent to sreedharreddybollup@gmail.com  
 Email sent to marcusjohn22@gmail.com

Email sent to vishnuvardhanreddy.mukka@gmail.com

Email sent to raghusaivaruno@gmail.com

Email sent to machinelearner94@gmail.com

Email sent to puneethreddypuneethreddy658@gmail.com

Process finished with exit code 0