**4. Software Programs/Application Development**

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import boto3

import os

bucket\_name = 'your\_bucket\_name'

local\_file\_path = 'students\_data.csv'

s3\_file\_key = 'students\_data.csv'

try:

    s3 = boto3.client('s3')

    print('Listing existing buckets:')

    response\_list = s3.list\_buckets()

    for bucket in response\_list['Buckets']:

        print(f'  {bucket["Name"]}')

    print("-" \* 20)

    print(f"Attempting to upload {local\_file\_path} to s3://{bucket\_name}/{s3\_file\_key}")

    if not os.path.exists(local\_file\_path):

        print(f"Error: Local file not found at {local\_file\_path}")

    else:

        s3.upload\_file(local\_file\_path, bucket\_name, s3\_file\_key)

        print(f"Successfully uploaded {local\_file\_path} to s3://{bucket\_name}/{s3\_file\_key}")

        print("-" \* 20)

        print(f"Attempting to change permissions for s3://{bucket\_name}/{s3\_file\_key}")

        response\_acl = s3.put\_object\_acl(

            Bucket=bucket\_name,

            Key=s3\_file\_key,

            ACL='owner-read'

        )

        print(f"Successfully changed permissions for s3://{bucket\_name}/{s3\_file\_key} to owner-read.")

except Exception as e:

    print(f"An error occurred: {e}")