STEP 1: CREATE LAMBDA FUNCTION

1. Go to <https://console.aws.amazon.com/lambda>
2. Click **Create function**
3. Choose:
   * **Author from scratch**
   * Function name: mr-analysis-service
   * Runtime: **Python 3.12**
4. Click **Create function**

**STEP 2: ZIP AND UPLOAD TO LAMBDA  
(your zip should contain all the files of AI code including lambda\_function.py which I gave to navya)**

1. Zip the **Files Only** — NOT the Folder
   * 1. Select all files
     2. Right-click → Compress/Zip
     3. Name it something like mr-analysis.zip
2. Go to your Lambda function (mr-analysis-service)
3. Click **Code** tab → **Upload from > .zip file**
4. Upload the zip file you just created
5. Click **Deploy** (top-right button)

STEP 3: GIVE YOUR LAMBDA FUNCTION THE PERMISSION TO ACCESS SQS

* 1. Go to [AWS Lambda Console](https://console.aws.amazon.com/lambda)
  2. Click your Lambda function: **mr-analysis-service**
  3. Click the **“Configuration”** tab (top menu)
  4. In the **left sidebar**, click **“Permissions”**
  5. You’ll see a section titled **“Execution role”**
  6. It will say something like: Role name: lambda-role-mr-analysis-service-xxxxx
  7. Click on the role name — it will open in the IAM console in a new tab
  8. Click **“Add permissions”** → then click **“Attach policies”**
  9. In the search bar, type: AmazonSQSFullAccess
  10. Check the box ✅ next to **AmazonSQSFullAccess and AmazonDynamoDBFullAccess**
  11. Click **Next** → then **Add permissions**

**STEP 4: ADD SQS TRIGGER TO YOUR LAMBDA FUNCTION**

1. In the **Lambda > Configuration** tab, click **Triggers** on the left
2. Click **Add trigger**
3. **Select a trigger**: Choose **SQS**
4. **SQS queue**: Select your existing queue from the dropdown
5. **Batch size**: Keep it as default (e.g. 1 or 10 is fine)
6. **Enabled**: Leave it checked ✅
7. Click **Add**

SAMPLE CODE TO STORE INTO DYNAMODB

# Save to DynamoDB

    response = table.put\_item(

        Item={

            'mr\_iid': str(mr\_iid),

            'project\_id': str(project\_id),

            'analysis': 'some analysis if string format'

        }

    )

    print("✅ Saved result to DynamoDB")