

Anuj Giri

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Education

Bsc CSIT, Sagarmatha College of Science & Technology

Amazon Web Services (AWS)

AWS re/Start Program Learner, Aug 2023 - Nov 2023

- Completed full-time, classroom based skills development and training program on IT fundamentals, AWS Cloud, and professional skills.
- Built IT fundamental skills, including: working knowledge of Linux OS, writing scripts in Python and Shell.
- Learned how to apply core AWS services in the areas of compute, storage and networking; including EC2, S3, IAM, VPC, Lambda, Cloud Formation, RDS and Route 53.
- Demonstrated strong verbal and written communication skills, including the ability to explain technical information and terminology to non-technical end users.

Python Projects

- Created spam message filter using multi-model, multinomial Naïve-Bayes Algorithm from scratch, for a chat system using Python, Pandas and NumPy.
- Created Blackjack card game
- Created a simple Discord like Chat rooms web app using Django.
- Created a poll application using Django.

AWS Projects

Project 1:

Use Amazon SageMaker to build, train, and deploy a machine learning model using the XGBoost ML algorithm

- Predicts whether a customer will enroll for a certificate of deposit(CD) in bank.
- Data is stored in S3 bucket.
- By setting up Amazon SageMaker session, an instance is created of the XGBoost model and the model's hyper-parameters were defined.
- Deployed a model on a server and created a Sagemaker endpoint to access.
- Predicted a customer will enroll for a certificate of deposit accurately for 90% of customers in test data, with a precision of 65% for enrolled and 90% for did not enroll.

Project 2:

Checking the Integrity of data in Amazon S3 with Additional Checksums:

- Created an AWS S3 bucket.
- Uploading a file and specifying the checksum algorithm (SHA-256).
- Verifying checksum by locating the checksum value, comparing the object to local computer, using shasum to calculate the file, comparing the value with the value in S3 console.

Project 3:

Created and AWS Lambda function to count the number of words in a text file

- Create a lambda function to count the number of words in a text file.
- Configure an AWS S3 bucket to invoke a lambda function when a text file is being uploaded to the S3 bucket
- Created an AWS SNS topic to report the word count in our email.

Project 4:

Automating code Deployment with a CI/CD pipeline in AWS

- The CI/CD pipeline of café website is automated using AWS Cloud9 IDE, python Boto3, AWS CodeCommit, AWS CodePipeline and AWS S3.

Project 5:

Implemented a Serverless Architecture on AWS

- The Inventory file uploaded triggers a lambda function that will read the file and insert items into an Amazon DynamoDB table.
- A serverless, web-based dashboard application used Amazon Cognito to authenticate to AWS and gains access to the DynamoDB table to display inventory levels.
- Another lambda function will receive update from the Dynamo table and sends message to an SNS topic.
- Amazon SNS will send us a notification through Email that requests additional inventory.

Project 9:

Networking between two VPCs:

- Two VPCs were created each containing two subnets, one public subnet and one Private subnet. Every subnet contains one EC2 instances.
- VPC peering were done between two VPCs
- Route tables and Security Group were created for each VPCs.
- EC2 instance on a private subnet of each VPC can communicate each other.
- Every EC2 instances in each VPC can connect to another to EC2 instances of another VPC
- The EC2 instance in private subnet of a VPC can connect to public network through accessing the EC2 instance of another VPC.

Additional Skills

- Basic understanding of Bash/Batch Scripting and Linux.
- Web Development through JavaScript, Node.js, CSS, HTML.
- Proficiency in AWS Cloud Adoption Framework (AWS CAF) & AWS Well-Architected Framework(AWS WAF).
- Git/Github, Jenkins, Burpsuite
- Security Best Practices(AWS)
- Monitoring and Logging(AWS CloudWatch, AWS CloudTrail, AWS CloudWatch Logs, VPC Flow Logs)
- Docker and Kubernetes

Licenses & Certifications



AWS Certified Cloud Practitioner - Amazon Web Services (AWS), Issued Nov 2023