

Dipesh Shrestha

Computer Engineering Student

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 <https://github.com/Dipesh-Shrestha-APX/>

I'm a machine learning and data science enthusiast with a strong engineering foundation, focused on using data-driven insights to solve complex problems with strong analytical and problem-solving skills. And eager to learn and grow in fast-paced environment.

EXPERIENCE

Aws re:Start Graduate

Unlimited Nepal

Khichapokhari, Kathmandu

Jul, 2024 - Oct, 2024

It's 3 month (12-week) training program intended to make the trainee job ready with AWS cloud services, python, linux, database and other introductory skills.

- Built a strong foundation in Python programming, including data types, control flow, functions, OOP(object-oriented programming) Concepts and using modules for data analysis.
- Strengthened Linux skills, covering the command line, file permissions, user management, and Bash scripting.
- Gained hands-on experience with Amazon EC2, learning instance setup, troubleshooting, and Auto Scaling for optimized computing.
- Managed cloud storage with services like Amazon S3, EBS, and S3 Glacier for data storage and retrieval solutions.
- Configured networks using Amazon VPC, creating and securing subnets, and handling routing with Amazon Route 53.
- Developed serverless skills with AWS Lambda for event-driven architectures and scalable, serverless functions.
- Enhanced security knowledge, focusing on IAM for access control, CloudTrail for auditing, and AWS Con g for compliance management.
- Worked with Amazon RDS for relational databases and Amazon DynamoDB for NoSQL, developing database management skills.
- Explored DevOps tools, using AWS Systems Manager for automation and CodePipeline for CI/CD practices.

Learned infrastructure automation with AWS CloudFormation, JSON/YAML configurations, and monitored resources via CloudWatch and Trusted Advisor.

EDUCATION

B.E. Computer

Khwopa Engineering College

GPA : 3.63 (Average)

Libali, Bhaktapur - 8

2021 – 2024

I have just completed my Bachelor of Engineering (B.E.) program in Computer Engineering, July 3 2025, And am preparing and waiting for licensure examination.

High School

Cosmic International Academy

GPA : 3.58

Koteshwor, Kathmandu

Feb, 2019 - Feb, 2021

S.E.E

Cosmic International Academy

GPA : 3.85

Koteshwor, Kathmandu

Jul, 2017 - Jul, 2018

PROJECTS

Mnist CNN and ANN Classification

It's my first attempt to learn CNN and ANN architecture and start with it you can view the learning journey through my github Journey repo. I have also learnt the different architectures and projects as such.

<https://github.com/Dipesh-Shrestha-APX/Journey>

Nepali TTS

It's a tacotron architecture based a Nepali TTS that we built and It provided a room for me to understand RNN, LSTMs, GRUs, Attention Mechanism. The training and inference procedure in it's totality.

<https://github.com/Dipesh-Shrestha-APX/tacotronFinal>

Nepali Music Recommendation System

Learnt to build and compare collaborative and content-based recommendation systems using real world based augmented music data. Gained hands-on experience with model training, evaluation concepts and API development using FastAPI.

Explored Dockerization to containerize and deploy the recommender system efficiently.

https://github.com/Dipesh-Shrestha-APX/nepali_music_recommender

Academy Web

It's a course selling website that is based on Udemy like interface, with instructor, Admin, and students as the agents.

<https://github.com/Dipesh-Shrestha-APX/AcademyWeb>

TRAINING/CERTIFICATIONS

AWS Solutions Architect Associate (SAA-C03)

2024

AWS, Amazon

<https://cp.certmetrics.com/amazon/en/public/verify/credential/96ba0c5e465c45a59afb6f32b876b3ad>

AWS Cloud Practitioner

2024

AWS, Amazon

https://www.credly.com/badges/e7fc2683-f0bf-4c7f-a0a6-2dfdaf8a71de/linked_in_profile

AWS re:Start Graduate

2024

AWS, Amazon

https://www.credly.com/badges/07153993-8ab7-48f8-9548-d4c8b966e29a/linked_in_profile

Python, Flask Framework And Django Course For Beginners

2024

Horizon Tech, Udemy

<https://www.udemy.com/certificate/UC-e5f12bd2-22b7-49bd-8a76-643eb092e5d/>

SKILLS

AWS Cloud, Database, PostgreSQL, Linux, Networking and Security Basics, Git and GitHub

Programming Language: Python(Numpy, Pandas, Matplotlib, Sklearn, Keras), C, C++,

Additional language: HTML, PHP, CSS, JavaScript

Currently Learning Framework and tools: PyTorch, Langchain, FastAPI, LangGraph, Docker

LANGUAGE

Nepali, English

REFERENCES

Sajjan Khanal - *DevOps Engineer*

Project Manager

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