

# 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

Khichapokhari, Kathamandu

Unlimited Nepal

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 Config 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

Libali, Bhaktapur - 8

Khwopa Engineering College

2021 – 2024

GPA : 3.63 (Average)

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

Koteshwor, Kathmandu

Cosmic International Academy

Feb, 2019 - Feb, 2021

GPA : 3.58

### S.E.E

Koteshwor, Kathmandu

Cosmic International Academy

Jul, 2017 - Jul, 2018

GPA : 3.85

## PROJECTS

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### 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](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

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### 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](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](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-8a76-643eb092e5d5/>

## SKILLS

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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

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## LANGUAGE

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Nepali, English

## REFERENCES

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**Sajjan Khanal** - *DevOps Engineer*

*Project Manager*

CropBytes Solutions Pvt. Ltd [sajjan@cropbytes.co.uk](mailto:sajjan@cropbytes.co.uk)