




Jharana Sapkota
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Summary

- Graduate Teaching Assistant (GTA) at Virginia Tech, assisting in teaching undergraduate-level courses in computer science, specializing in Data Structure and Algorithm.
- Experienced mobile application and website developer with a strong background in programming and data analysis.
- Proficient in multiple programming languages, including [Dart, React, Java, Python, PHP, HTML, CSS, JavaScript].
- Ability to work effectively in a research environment, contributing to projects and conducting independent research.
- Skilled computer teacher and lab assistant, adept at facilitating technology-based learning and providing technical support in educational settings.

Education

MS in CS	Virginia Tech	2024 Jan -present
BCIS(IT)	Pokhara University, Nepal	2022
+2 Science	National Integrated College	2017
SLC	New West Point HSEB	2015

Achievements

Dean's List	Pokhara University, Nepal
University Topper	2 nd Semester, Pokhara University
School's First Girl	SLC, New West Point HSEB
Best Girl in Extra-Curricular Activities (ECA)	New West Point HSEB

Certifications

(Attached in Appendix)

- Data Analysis with Python (Coursera)
- Data Visualization (Coursera)
- Machine Learning with Python (Coursera)
- Unsupervised Learning, Recommenders, Reinforcement Learning (Coursera)
- Supervised Machine Learning: Regression and Classification (Coursera)
- Advanced Learning Algorithms (Coursera)
- AI Bootcamp (Ing Academy)
- Android App Development Training (Skybase Innovations)

Skills

- Programming [Dart, React, Java, Python, PHP, HTML, CSS, JavaScript]
- Machine Learning with Python
- Data Analysis
- Database Management
- Git Version Control
- Teaching
- Engaging Presentation
- Scientific Writing
- Problem-solving and Critical Thinking
- Academic Writing

Publications and Research Experience

[1] Poudyal, K., Sapkota, J., Dahal, P., Shrestha, P., & Dahal, B. (2023). Constitutive Modelling of Soil in Kathmandu Valley using Machine Learning. (Under-Review).

[2] “Ikuzo- The Ride Sharing Application using Flutter” –Final Year Capstone Project. User-friendly ride-sharing app that improved customer satisfaction by 20%, and sustainable transportation solution for urban areas.

Work Experience

Graduate Teaching Assistant Virginia Tech Jan 2024 – Present

Key Responsibilities:

- Assist in teaching undergraduate-level courses in computer science, specializing in Data Structure and Algorithm.
- Provide guidance and support to students in understanding complex concepts, programming languages, and algorithms.
- Grading assignments, exams, and other assessments, ensuring fair and timely feedback to students.
- Conduct office hours to offer personalized assistance and mentoring to graduate students pursuing computer science degrees.

Lecturer Xavier International College, Kathmandu June 2023 – Dec 2023

Key Responsibilities:

- Teach higher secondary courses in computer science, including programming languages, data structures, and algorithms.
- Design, administer, and assess student exams and assignments.
- Prepare and deliver engaging lectures, presentations, and demonstrations to promote student learning and understanding.
- Supervise students in web development, and programming lab sessions.

Flutter Developer Skybase Innovations, Pokhara Nov 2021 – June 2023

Key Responsibilities:

- Design and develop high-quality, cross-platform mobile applications using Flutter and Dart.
- Conducted exploratory data analysis to identify trends, patterns, and anomalies.
- Integrate with RESTful APIs and backend systems to provide seamless data connectivity.
- Debug and resolve technical issues in a timely and effective manner.

- Test applications on both iOS and Android platforms, ensuring compatibility and performance.

Front-End Developer Skybase Innovations, Pokhara

Jan 2021 – Nov 2021

Key Responsibilities:

- Design and develop user-friendly and visually appealing web pages and applications...
- Implement responsive design principles to ensure that websites are optimized for different screen sizes and devices.
- Test websites and applications across multiple browsers and platforms, ensuring compatibility and performance.
- Collaborate with design and product teams to understand and implement UI/UX requirements.

Projects

HFEE: Help for entrance exam (HFEE) is a complete application for Medical, Paramedical, Engineering, and Applied Science programs entrance exam preparation.

Responsibilities:

- Developed Core Features
 - API Integration
 - Testing and Debugging
 - Ads Implementation

Link: <https://play.google.com/store/apps/details?id=com.helpforentranceexam.app&hl=en&gl=US>

Karuna Home Care: Karuna Home Care is an online health service providing mobile application that allows online booking of nurses, health assistants and other medical staffs.

Responsibilities:

- UI/UX Design
- Developed Core Features
- API Integration
- Street Map Integration

Aayo: Aayo is the ride sharing application to manage transportation issues in Pokhara Valley.

Responsibilities:

- Developed Core Features
- API Integration

Link: https://play.google.com/store/apps/details?id=app.aayo.ride&pcampaignid=web_share

Bhoklayo: Bhoklayo is the food delivery app for Pokhara Valley.

Responsibilities:

- Developed Core Features
- API Integration

Link: <https://play.google.com/store/apps/details?id=com.bhoklayo.android>

Ghardurbar: Ghardurbar is the team of Engineers, Architects, and Realtors for home inspections.

Responsibilities:

- UI/UX Design
- Complete Dynamic and Responsive website.

Link: <https://ghardurbar.com/>

PCH: PCH is a website for Paschimanchal Community Hospital.

Responsibilities:

- UI/UX Design
- Complete Dynamic and Responsive website.

Link: <https://www.pch.com.np/>

Volunteering

Member of **West Point Scout** from 2013 to 2015 AD

References

Mohammed Farghally

Collegiate assistant professor

Department of Computer Science, Virginia Tech

mfseddik@vt.edu

Er. Sonam Hitang,

CEO, Skybase Innovations Pvt. Ltd

sonaam@skybase.com.np

Er. Hari Prasad Baral

BCIS Coordinator/ Vice Principal, Pokhara College of Management

haripbaral@wrc.edu.np

APPENDIX





Jul 13, 2023

Jharana Sapkota

has successfully completed

Machine Learning with Python

an online non-credit course authorized by IBM and offered through Coursera

Saeed Aglabouweji
Sr. Data Scientist
IBM

Joseph Santanangelo
Senior Data Scientist
IBM

COURSE
CERTIFICATE



Verify at:
<https://coursera.org/verify/CB497652NT46>
Coursera has confirmed the identity of this individual and their participation in the course.



Stanford ONLINE

Aug 19, 2023

Jharana Sapkota

has successfully completed

**Unsupervised Learning, Recommenders,
Reinforcement Learning**

an online non-credit course authorized by DeepLearning.AI and Stanford University and offered through Coursera

Andrew Ng, Instructor, DeepLearning.AI
Eddy Shyu, Curriculum Architect, DeepLearning.AI
Aarti Bagul and Geoff Ladwig, Curriculum Engineers, DeepLearning.AI

COURSE
CERTIFICATE



Verify at:
<https://coursera.org/verify/JC5TIKY87731>
Coursera has confirmed the identity of this individual and their participation in the course.



Stanford | ONLINE

Jul 11, 2023

Jharana Sapkota

has successfully completed

Supervised Machine Learning: Regression and Classification

an online non-credit course authorized by DeepLearning.AI and Stanford University and offered through Coursera

Andrew Ng, Instructor, DeepLearning.AI
Eddy Shyu, Curriculum Architect, DeepLearning.AI
Aarti Bagul and Geoff Ladwig, Curriculum Engineers, DeepLearning.AI

COURSE
CERTIFICATE



Verify at:
<https://coursera.org/verify/JSWAMKQFWB85>
Coursera has confirmed the identity of this individual and their participation in the course.



Stanford | ONLINE

Jul 9, 2023

Jharana Sapkota

has successfully completed

Advanced Learning Algorithms

an online non-credit course authorized by DeepLearning.AI and Stanford University and offered through Coursera

Andrew Ng, Instructor, DeepLearning.AI
Eddy Shyu, Curriculum Architect, DeepLearning.AI
Aarti Bagul and Geoff Ladwig, Curriculum Engineers, DeepLearning.AI

COURSE
CERTIFICATE



Verify at:
<https://coursera.org/verify/WXXEGHUTQ6F>
Coursera has confirmed the identity of this individual and their participation in the course.



AI BOOTCAMP

Certificate of Appreciation

This Certificate of Appreciation is conferred to

Jharana Sapkota

for her active participation in the organization of the AI Bootcamp held on 29th and 30th of May,
2023 at Sushma Secondary School, Itahari, Sunsari. We wish you all the best
in your future endeavors.

Mr. Nikhil Raj Shrestha
CEO
ing Skill Academy



CERTIFICATE OF PARTICIPATION

This Certificate is proudly presented to

JHARANA SAPKOTA

for showing participation in the
Android App Development Training conducted on
September 1 - September 30, 2021 (30 credit hours)

Er. Sonaam Hitang
CEO
Skybase Innovations Pvt. Ltd

Dr. Chaitanya Raj Adhikari
Principal
Pokhara College of Management

Er. Hari Prasad Baral
Program Co-ordinator
Pokhara College of Management

