

LABBI KARMACHARYA

Data Scientist | Visiting Lecturer

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SUMMARY

- Over 3 years of experience in analytics, machine learning, and data visualization that has driven significant improvements in engagement and sales metrics across multiple sectors.
- Proven Track Record in both educational and professional settings, developed curriculum for B.Sc.IT programs (Data Structure and Algorithm module).
- Worked with cross-functional teams to design solutions as well as conducted workshops which has reached over 500 professionals and students with advanced data visualization techniques and big data insights.
- Recognized for developing top-rated IT and AI projects and contributing to mobile security advancements through white paper publications and applied research.
- Founder of Digital Kala, a digital literacy project for underrepresented individuals, which has successfully reached over 300 individuals.

EXPERIENCE

08/2022 – Present **Data Scientist** **CloudFactory (Sprout Technology Pvt. Ltd, Nepal)**

- Led identity fraud detection analysis using anomaly detection, clustering, and classification techniques which led to improved fraud detection and prevention measures.
- Led supervised learning models, including XGBoost, to predict future worker performance based on their current experience.
- Collaborated with cross-functional teams, including data engineers, business analysts, and product managers, to identify business problems, design analytics solutions, and communicate findings.

04/2024 – Present **Visiting Lecturer of Data Structure and Algorithm** **Apex College, Nepal**

- Developed the curriculum for the Data Structures and Algorithms course for second-semester Bachelor of Science in Information Technology (B.Sc.IT) students
- Currently teaching over 50 second-semester B.Sc.IT students and evaluating student progress through exams, projects, and continuous assessments.

11/2021 – 09/2022 **Data Visualization and Designer** **Xabit Analytics, Nepal**

- Contributed to deploying a mobile app recommendation system for Himalayan Java, a franchise of the Nepali Coffee brand, using algorithms to boost sales and revenue by analyzing the behavior of 10,000 active monthly users.
- Conducted data analysis to report on product data, creating monthly client application overviews and customer analyses focused on segmentation, flow, and conversion as per client needs

09/2021 – 11/2021 **Data Visualization and Design Intern** **Xabit Analytics, Nepal**

- Designed and developed data visualizations for social media, which resulted in a 15% increase in engagement and improved brand recognition.
- Cleaned and integrated data from multiple sources to ensure accurate and consistent data-viz content.
- Led workshops with four partner organizations on big data, imparting data visualization techniques, tools, and best practices to over 100 participants.

EDUCATION

09/2020-10/2022 **BSc (Hons) in Computing** **Islington College (awarding body London Met.), Nepal**

- Degree Result: First Class Honors (1:1)
- Ranked 26th and placed in the top 3.4% in a cohort of 762 students.
- Subject: Advanced Database System Development, Software Engineering, Artificial Intelligence, etc
- Served as Student Academic Representative (StAR) for two consecutive years: 2019 and 2020

08/2017-05/2019 **School Leaving Certificate, High School** **St. Mary's College, Nepal**

- Subject: Computer Science, Maths, Economics and English
- Result: Grade A (CGPA: 3.36)

PROGRAMMING SKILLS

- **Language:** Python, SQL, C, Javascript
- **Technologies:** AWS, Pytorch, Jira, Posthog, DBT, Streamlit

VOLUNTEERING AND ADVOCATING

- 8/2023 – Present **Founder, Digital Kala: Digital Awareness Project** **Digital Kala**
- Co-led a Digital Awareness project in the rural areas of Nepal, specifically in the Dang and Lumbini regions, where we collaborated with schools and local NGOs to reach over 300 individuals, and conducted sessions in city schools, thereby reaching more than 50 students.
 - Developed an online platform to disseminate information about scholarships and grants in Nepal to students with almost 1000 new users weekly.
 - Recognized with the Davis Peace Project Award and the SBCM Award for this project.
- 01/2023 – Present **Executive Member** **Association of St. Mary's Alumnae Nepal (ASMAN)**
- Dedicated to promoting child and women's rights, and advancing awareness of health and the environment, while collaborating with fellow executives to achieve organizational goals with more than 800 beneficiaries.
- 01/2023 – Present **Workshop Facilitator and Mentor** **Multiple organizations**
- Engaged as a workshop facilitator for over 10 institutions mostly related to data and technology. This includes mentoring at events such as the Code for Nepal Hackathon and the Shequal Foundation All Female Hackathon, as well as facilitating sessions on AI for managers at Cloudfactory.

PROJECTS

- ML Model **Spam Detection Model for Feature Phone** **Dataset of Africa and Europe**
- Currently working on this project to develop a spam detection model tailored for feature phones
- Website **Nepalese Scholarship Hub** **Nepalesescholarshiphub.com**
- Co-developed Nepalese Scholarship Hub, a website serving as a one-stop hub for Nepalese students seeking scholarships, with over 1000 new users every week.
- Min-Max Algo **Chess Engine** **Github Repo**
- Developed a chess engine utilizing the Python programming language and implemented "Adversarial Search and Games" principles to enhance strategic decision-making.

ACHIEVEMENTS AWARDS

- 12/2023 **Smishing Detection for Feature Phone White paper** **Equitech Futures**
Collaboratively authored a white paper on AI detection for smishing in feature phones across Africa and worked with four individuals from different countries to address unique challenges in advancing mobile security.
- 09/2023 **Fully Funded Applied Data Institute Scholarship** **Equitech Futures**
Awarded a fully funded scholarship valued at US \$9500 to participate in a 10-week program tailored for young professionals with STEM and computational science backgrounds at the Applied Data Institute by Equitech Futures.
- 12/2022 **Overall Best Final Year IT Project** **Islington College (awarding body London Met.), Nepal**
Developed and presented an IT project that won the overall best final year IT project award out of more than 750 projects in competition at Islington College.
- 12/2022 **Runner-Up in Final-Year AI Module** **Islington College (awarding body London Met.), Nepal**
Achieved the position of runner-up in Artificial Intelligence module among a graduation cohort of 440+ students.

References available on request