

Bishal Kharal

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Education

Kathmandu Bernhardt Secondary School and College

High School, Computer Science

Kathmandu, Nepal

July 2019 – Dec 2021

Pinnacle Scholar's Academy

Secondary School

Kathmandu, Nepal

Jan 2016 – Dec 2019

Projects

JOV AI | *StyleGAN, deeplearning*

Oct 2022 – PRESENT

- JOV.AI is application that can colorize b/w of Jupiter images taken from NASA's JunoCam into detailed colorful image, also with the help of StyleGAN it can generate new Jupiter image like never before.

EaseMed | *Python, Flutter, Machine Learning*

Sep 2022 – Sep 2022

- EaseMed is an mental health app that can chat with people to talk about their mental health. It also provides features like doctor consultancy, and provides news summary, and nearest hospital recommendation.

Frida | *Flutter, Deep Learning, Python*

Jun 2022 – PRESENT

- Frida is an one stop solution for all your climate needs. It is enriched with features like landslide detection, flood warning in your near area, personalized climate recommendation, climate news system, funds notification system.

BugCV – Throctor | *Azure, Machine Learning, IoT*

Jan 2022 – PRESENT

- Throctor is a device used to diagnose thyroid diseases remotely in rural places where there is an absence of front-line workers. It uses a Machine Learning technique that has been trained to detect irregularities in the thyroid gland.

DiDi Robot | *Python, AI, IoT*

Nov 2019 – Nov 2019

- DiDi is an IoT robot powered with AI which enables it to teach to students via voice command. Both primary and secondary level junior students can simply ask any questions to DiDi and it will find best answers from internet and show it on the display. DiDi taught more than 800 students on different schools in Kathmandu.

Experience

President and Co-Founder

Oct 2021 – PRESENT

Data Research Council For Students(DRCFS) | [drcfs.org](#)

Kathmandu, Nepal

- Wrote 20+ newsletters, published blogs on topics like blockchain, machine learning, and general computer science.
- Ideated and disseminated a unique pictographic, storytelling format via social media to an audience of 1000+ professionals.
- Responsible for event planning with board members on a bi-weekly basis, managed over 10 events like school outreach programs, hour of code, research paper reviews and webinars impacting over 600 students
- Involved in group projects, building 'Project Pahiro' with over 400+ unique users and worked on human computer interaction research papers.
- Supervised and mentored a remote team of 6 interns working across marketing, graphic design and content creation.

Co-Founder

Apr 2022 – PRESENT

Padamna Pvt. Ltd | [padamna.com](#)

Kathmandu, Nepal

- Hired and built cross-functional team of seven people across marketing, tech and operations.
- Conducted 30+ DM interviews, while reshaping the product roadmap to deprioritize good-to-have features and prioritized.
- Led the GoProcure (Freight Negotiation Tool) team of 6 cross-funtional engineers, 2 marketeers, and 2 UI/UX desginers; helped solve poor sprint efficiency by tracking developer metrics which increased the sprint completion rate from 55 to 80 percentage.
- Improved the response time by 20 percentage by refactoring the codebase and changing database design and queries.

Data Scientist

Jul 2021 – Oct 2021

Reduct Nepal Pvt. Ltd | [humanassisted.ai](#)

Kathmandu, Nepal

- Collaborated with fellow interns for code optimization and saved hours of time by automating manual tasks.
- Worked on a data science project for the team involving training of a machine learning model using Python. Created chart visualizations of model results in matplotlib.
- Researched and worked on feasibility of Machine Learning models to detect human voice under HIPAA Compliance

Core member

Feb 2022 – PRESENT

Global AI Hub | [globalaihub.com](#)

Zurich, Switzerland

- Worked with other fellow core members to conduct different AI sessions.
- Participated in different sessions on programming and computer science.
- Collaborating with a diverse research team to collect, code, and write technical reports.

Awards and Honors

Team Lead/Machine Learning Researcher

Jan 2022 – Mar 2022

Microsoft Imagine Cup 2022

- Won the Microsoft Imagine Cup National Competition; only 1 of the 200 top teams to advance to the Asian Regional Finals of the competition from Nepal.

Team Lead/AI Engineer

Sep 2022 – Sep 2022

Oithon 2022

Uxbridge, Greater London

- Won Oithon 2022; selected as no.1 team among 10 others competitive team. .

Research Papers

Jelly conversational bot

May 2022 - PRESENT

Together We Learn | thetwl.org

Kathmandu, Nepal

- Researched on bot

Involvements and volunteering

Machine Learning Mentor

May 2022 - PRESENT

Together We Learn | thetwl.org

Kathmandu, Nepal

- Organized and hosted workshops on computer science on different government schools in Nepal, more than 300 students were directly benefited from it.
- Worked with tech team to develop backend for website.

Data Science Mentor

Dec 2021 - PRESENT

Data Research Council for Students | drcfs.org

Kathmandu, Nepal

- Developed productive sessions regarding digital literacy for more than 1000+ young adults to reinforce positive learning.
- Volunteered as youth data mentor and taught R programming language under the fellowship.

Tech Mentor

Sep 2019 – Oct 2020

Bernhardt Science and IT Club

Balkhu, Kathmandu

- Assisted freshers mentees in transitioning to high school life and helped them in setting action goals for personal, academic, and professional development.
- Conducted more than 8 boot camps on STEM-based concepts on Web Development, Data Science and Machine Learning.

Skills

Programming Languages: Python, C++ , R, NodeJS, Bash

Technology/ Framework: Docker, Kubernetes, Linux, Git, PostgreSQL, Tensorflow, LaTeX

Courses: Data Structures and Algorithm, Databases, OOPS, Computer Architecture

Languages: English, Nepali, Hindi