

Arun Joshi

✉ jarun6069@gmail.com ☎ 9810350446 📍 Mahalaxmi-5, Lalitpur 📅 22/08/2003 🌐 Sauske05

👤 Profile

Aspiring Machine Learning Engineer with a solid foundation in AI/ML. Passionate about using machine learning to solve complex problems and drive innovation. Seeking opportunities to apply and expand my skills in a dynamic, growth-oriented environment, with a long-term goal of becoming a leading expert in the field.

📁 Professional Experience

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| 10/2021 – 03/2022
Lalitpur, Nepal | Research and Development Intern , <i>Robotics Association of Nepal</i> <ul style="list-style-type: none">• Proficient in pandas, Numpy, Seaborn, Matplotlib, Scikit-Learn, and basic TensorFlow.• Researched robotics and emerging technologies like Arduino and NodeMCU.• Analyzed data to support research and development projects.• Assisted in prototype development, testing, and evaluation.• Collaborated with researchers and engineers on innovative solutions.• Strong understanding of robotics and related technologies.• Quickly adapted to new technologies and concepts.• Conducted workshops on Robotics and Aviation for 1000+ children in 4 schools under “Ujjwal Education Nepal.” |
| 12/2021 – 04/2022
Kathmandu, Nepal | Paid Tutor , <i>Trinity International College</i> <ul style="list-style-type: none">• Gave orientation classes on Physics, Mathematics to over 100+ students of AS Level (11th grade).• Helped an A-level Junior to understand the core concepts of Math, Physics, Computer Science, and Chemistry; helped him develop his problem-solving and critical thinking skills. |

🎓 Education

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| 03/2023 – present
Kathmandu, Nepal | BSc(Hons) in Computing with AI , <i>Islington College</i> |
| 06/2019 – 01/2022
Kathmandu, Nepal | High School , <i>Trinity International College</i> <ul style="list-style-type: none">• Achieved a perfect GPA of 4.0 in both 11th and 12th grade.• Courses taken in Mathematics, Physics, Further Mathematics, Computer, Chemistry, and English. |

🏠 Clubs and Organization

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| 08/2022 – present
Kathmandu, Nepal | Together We Learn , <i>Member</i> <ul style="list-style-type: none">• Brainstormed in event planning and feedback sessions during 10+ general meetings.• Technical backup during Python Workshop events held both online and physically. |
| 10/2021 – 03/2022
Kathmandu, Nepal | Robotics Association of Nepal , <i>Member</i> <ul style="list-style-type: none">• Had the unique opportunity to be part of a team developing an agricultural drone. My contributions included programming and testing the drone's control systems, as well as troubleshooting issues that arose during development. |

Awards

Highest GPA Achiever, Mahendra Bhawan School

- Awarded highest GPA achiever in School by Private and Boarding Schools' Organization Nepal (PABSON).

Best Student of the Year, Mahendra Bhawan School

- Awarded with the best student of the year 2018-2019.

Projects

Stock Market Prediction

- Developed a predictive model using basic recurrent neural network (RNN) architecture.
- Implemented the model to forecast stock market trends based on historical data.
- Utilized the previous 30 days' worth of data to train the model.
- Incorporated graphical representation to illustrate predicted closing prices against actual closing prices.
- Enabled the model to make forward-looking predictions regarding future closing prices.

Chatbot Development

- Used the Cornell Movie-Dialogs Corpus dataset containing 220,579 conversational exchanges between 10,292 pairs of movie characters.
- Utilized word2vec with the Gensim library to embed words into vectors.
- Implemented a Sequence to Sequence model with an encoder, LSTM layers, and decoder.
- Created a chatbot capable of generating contextually relevant responses based on movie dialogue data.

Image Classification

- Created an image classification model using TensorFlow that can accurately identify three types of animals: horses, dogs, and cats.
- The model was able to achieve an impressive accuracy rate of over 80%, meaning that it can correctly identify the animal in the image in 80% of the cases.

Website Development

- Developed advanced backend features for dynamic websites using Java Enterprise Edition (JEE).
- Implemented robust authentication and validation mechanisms to enhance security.
- Performed CRUD operations and authentication filters.
- Implemented full-stack development by learning front-end and back-end technologies.
- Used 'MySQL' as the database for storing the data.
- Implemented the MVC architecture during the project development.

Flutter APP

- Developed an A-levels Notes App that consists of notes and past papers of Physics and Mathematics for A-level students to help them understand and practice the core concept of syllabus topics.
- Has a solid 5-star rating and over 5K+ downloads.

Agricultural Drone

- Installed new firmware in the Pixhawk 2.4.8 (a flight controller) of the drone using Mission Planner.
- Tested the spraying mechanism of the drone.

Skills

Soft Skills — Communication | Critical Thinking | Problem-Solving | Team Work | Leadership •

Technical Skills — Deep Learning | HTML, CSS, JS | Flutter, Dart | Python | NumPy, SciPy | Seaborn | Scikit-Learn | Pandas | TensorFlow | Java

Languages

Nepali | English | Hindi

Hobbies and Interest

Physics and Calculus | Programming | Web design | Deep Learning | Machine Learning | Natural Language Processing | Competitive Online Gaming | Basketball | Chess

Certificates

- Flutter and Dart-The Complete Guide[2023 Edition] [↗](#)

References

Bikash Gurung, *President*, Robotics Association of Nepal