Shubin Pokhrel

ASPIRING COMPUTER SCIENCE INTERN

PROFESSIONAL SUMMARY

I am a computer science student seeking to apply my extensive academic background and project understanding in an organization with an innovative vision. I am looking forward to contributing to a dynamic team and supporting research and development efforts. My interests include machine learning as well as full-stack web development.

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EDUCATION

Bachelor of Science in Computer Science | 2021-2025
Kathmandu University, Dhulikhel

- Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Communication and Networking, Database Management Systems, Algorithms and Complexity, Artificial Intelligence, Neural Network and Deep Learning

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, JavaScript, SQL, HTML, CSS
- **Frameworks & Libraries:** Tensorflow, Keras, OpenCV, Numpy, Pandas, Mediapipe, Flask, Express.js, Node.js, React.js, Qt
- **Tools & Platforms:** Git, Jupyter Notebook, MongoDB, MySQL
- **Concepts:** Full Stack Development (MERN Stack), RESTful APIs, Deep Learning, Computer Vision, Data Analysis, API Development

PROJECTS

TalkWithHands
Deep Learning Course, First Semester of Fourth Year

- Developed a deep learning model to detect and classify sign language using MediaPipe and TensorFlow.
- Implemented feature extraction and data preprocessing techniques for hand and facial landmarks.
- Designed a CNN-LSTM-based LRCN model for sequential gesture recognition.
- Used OpenCV for real-time webcam-based sign detection.

PROJECTS

PredictiveEstates

Computer Project Course, Second Semester of Third Year

- Developed a website for buying houses with predicton for house prices in an area.
- Used seaborn heatmap to visualize the correlation of features with price and used feature engineering to derive new features for low correlation.
- Used linear regression model from sklearn to fit the data.
- Converted the model to pickle file and use python flask to create server and integrate to the website.

NylonWears

Computer Project Course, First Semester of Second Year

- Created an e-commerce web application for selling clothes.
- Used JWT for authentication and bcrypt to encrypt the password.
- Created various routes and database schema models.
- Successfully created various React components and combined those reusable components to make webpages.

BillX

Computer Project Course, Second Semester of First Year

- Created an application using Qt that makes bills for supermarkets.
- Implemented features such as inventory management, employee management as well as customer registration
- Allowed the application to be accessed only by admins or employees

ACHIEVEMENTS

- Participated in KU HackFest 2022

EXTRACURRICULAR ACTIVITIES

- Member of Kathmandu University Computer Club
- Volunteer for Mobile Rush (IT Meet 2022)