

SAURAV SHRESTHA

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Education

Kathmandu Engineering College , Tribhuvan University, Kathmandu B.E. Computer Engineering	2023–2027
Kathmandu Model College , Kathmandu NEB Class XII (Science), GPA: 3.61/4.00	2021–2023
Sainik Awasiya Mahavidyalaya , Nepal Secondary Education Examination (SEE), GPA: 3.95/4.00	2016–2021

Areas of Interest

Machine Learning, Deep Learning, Computer Vision, Predictive Modelling, Mobile Application Development.

Technical Projects

AI Image Detector — CNN, Vision Transformer & Stacked Ensemble

Python, TensorFlow/Keras, PyTorch (timm), scikit-learn, Flask, HTML/CSS/JavaScript

- Web application classifying an uploaded image as AI-generated or a real photograph, with three selectable detectors.
- Trained a MobileNetV2 CNN and a Vision Transformer, then stacked both with a logistic-regression meta-model for the ensemble verdict.
- Served all three models through a Flask REST API with a browser front end.
- **Specialised in:** deep learning model training, ensemble stacking, and model deployment.

Nepali Housing Price Prediction

Python, pandas, NumPy, scikit-learn, Matplotlib, Seaborn

- Cleaned a 2,194-listing Nepali housing dataset: outlier treatment, median and mode imputation, Ropani–Aana–Paisha–Dam parsing and Bikram Sambat to Gregorian conversion.
- One-hot encoded 33 amenities into a 74-feature matrix and trained a Random Forest Regressor on an 80/20 split, reaching $R^2 = 0.53$.
- **Specialised in:** data cleaning and feature engineering, regression modelling, and model evaluation.

Certifications

MINspire 2026 — Mathematics Initiatives in Nepal (MIN) Two-week intensive programme in Mathematics, Innovation, Neural Systems and Research, led by Trushant Majmudar, Ph.D. (NYU Courant Institute).	Jun. 2026
Deep Learning with Python — Code IT Neural networks, model training and evaluation with TensorFlow and Keras, and real-world AI model development.	Jul. 2026
Machine Learning with Python — Code IT Data preprocessing, exploratory data analysis, supervised and unsupervised learning, and feature engineering.	Feb. 2026
iOS Development Kickstart: Craft Your First App with SwiftUI — Udemy Native iOS application development using Swift and SwiftUI.	Jun. 2025

Skills

Languages: C, C++, Python, Swift, JavaScript, SQL

Machine Learning: TensorFlow, Keras, PyTorch, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn

Web: HTML, CSS, Django, Flask

Mobile: Flutter, Swift (iOS)

Tools: Git, GitHub, Jupyter Notebook, Google Colab