Sarthak Shakya

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Profile

Computer Science student skilled in Python, C/C++, and JavaScript, with experience in machine learning, data analysis, and web development. Looking to apply machine learning expertise to data science and AI-driven projects.

Education

Kathmandu University   2020 – present
BSc Computer Science
Relevant Coursework: Data Mining, Software Engineering, Artificial Intelligence, Algorithms

St. Xavier's College   2018 – 2020
GCE A-Level

Projects

Time-Series-Forecasting-Using-XGBoost ⧉
- Developed a machine learning model using **XGBoost** to forecast Kathmandu Valley's AQI from 2017-2021 data.
- Processed over 1300 data points spanning 4 years

Iris Flower Classification Using Scikit-Learn ⧉
- Built a **Logistic Regression** model in scikit-learn to classify iris species with 96% accuracy.
- Fine-tuned hyperparameters to enhance performance.

Sentiment Analysis for Romanized Nepali ⧉
- Scraped YouTube comments and developed a sentiment analysis model for Romanized Nepali text.
- Applied NLP techniques to assign positive or negative sentiment scores.

Skills

Programming Languages
- Python, C/C++, JavaScript

Web Development
- React.js, Next.js, HTML, CSS

Databases
- MySQL, MongoDB

Machine Learning & Data Science Tools
- scikit-learn, XGBoost, Pandas, NumPy, Matplotlib

Tools & Frameworks
- Git, Jupyter Notebooks, VSCode

Other Skills
- Problem-solving, Team collaboration, Technical documentation, Self-motivated learner

Awards

Infinity CodeWave   19/09/2024
Kathmandu University Computational Mathematics Club
Second Runner Up of the Infinity CodeWave Hackathon competition 2024