ROJIT KHADGI

COMPUTER SCIENCE
UNDERGRADUATE

CONTACT

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PROFILE SUMMARY

A enthusiast Computer Science undergrad with strong skills in Java, Python, HTML, and CSS. Experienced in developing multiple college projects, including desktop applications, scripts, and responsive web solutions. Fluent in English and Nepali, with effective communication in both languages. Eager to apply technical knowledge and problem solving abilities in real world software development roles.

EDUCATION

ALCHEMIST ACADEMY
- BLE and SEE
- GPA: 3.53 / 3.85

LYMPIA NATIONAL COLLEGE
- +2 Computer Science
- GPA: 3.65

IIMS
- Bachelors in Computer Science
- WCGPA: 3.06 (Current)

SKILLS

- Programming Languages: Java, Python
- Databases / Query Languages: SQL, SQLite
- Frameworks and Tools: JavaFX, Git
- Microsoft Software: Excel, PowerPoint, Word

LANGUAGES

- English: Fluent
- Nepali: Native
- Hindi: Intermediate

PROJECTS

Nepal Earthquake Analysis & Prediction

In this project datasets from Nepal earthquakes (2015-2025) is analyzed, sourced from Kaggle, for the sole purpose uncovering patterns in seismic activity and building predictive models. With the help of Pandas and Dask for efficient data loading and preprocessing, I aggregated and visualized trends like hourly quake counts, magnitude distributions, and depth-magnitude relationships. Large earthquakes (magnitude ≥5.0) is identified by the Random Forest classifier with high accuracy, while an LSTM neural network forecasts future magnitudes based on time-series sequences. Here models were trained, evaluated, and saved for deployment, demonstrating scalable data handling and ML techniques for disaster risk insights. Built in Google Colab with scikit-learn and TensorFlow.

Student-Teacher Ratio Analysis & Clustering

Student to Teacher ratio was analyzed across 76 districts in this project. Cleaned and transformed level-wise STR data, visualized distributions and province averages, and used K-Means clustering (silhouette = 0.534) to group districts by STR profile. Deliverables. Cleaned CSV, EDA plots (histogram, boxplots, heatmap, top-district bar chart), and a clustered dataset.

Student Registration System

A desktop application based on java for managing student registration and records. Features include adding, updating, viewing, and deleting student information with a simple user interface (likely using Swing/JavaFX) and data persistence.

Banking System GUI / Bank Management System

A Java desktop application that consist graphical user interface for the purpose of simulating basic banking operations. Supports features like account creation, deposits, withdrawals, balance checks, and transactions built using Swing (or similar) for the GUI as a college project.