

Nerish Shrestha

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Skills

Backend & Web Development: NestJS, Node.js, REST API, GraphQL

Programming Languages: Python, C++, JavaScript, TypeScript

Scientific Computing: NumPy, Pandas

Databases & Storage: Redis, SQLite, PostgreSQL, TypeORM, MySQL

Projects

Robotic Process Automation for KU Entrance Website

github.com/Xen00n/rpa_for_cbt_form

Tech: TypeScript, NestJS, Tesseract, SSIM, ELA, Payment API Integration

- Developed an automation system for the KU entrance application portal to streamline applicant verification and reduce manual processing overhead.
- Implemented OCR-based extraction of citizenship information combined with automated validation against applicant-submitted form data.
- Architected an asynchronous processing pipeline using Redis-backed background jobs, reducing document verification and payment-processing time by 90% through parallel task execution.

Exploratory Data Analysis (EDA) on KUCBT Score

github.com/atrociousdinner/EDA_on_KUCBT_score

Tech: Python, Pandas, NumPy, Matplotlib/Seaborn

- Conducted exploratory data analysis on KUCBT score datasets (2021–2024) to identify historical admission trends and competitiveness across majors.
- Cleaned and transformed raw admission datasets by handling missing values, standardizing formats, and preparing data for statistical analysis.
- Investigated research questions including gender distribution across majors, competitiveness ranking, and admission likelihood prediction based on CBT scores.

Expense Tracker CLI

github.com/atrociousdinner/expense-tracker-cli

Tech: Node.js, File System, JSON, Commander

- Built a command-line expense tracking application in Node.js to help users manage personal finances through a lightweight terminal-based interface.
- Designed and implemented features for adding, deleting, categorizing, and listing expenses, with monthly summaries and budget tracking.
- Developed persistent local JSON-based storage architecture to ensure reliable data retention across sessions without requiring external databases.

Experience

Kathmandu University Open Source Community - Open Source Contributor

December 2025 - January 2026

- Developed an automated newsletter workflow to streamline community updates.
- Implemented cron jobs to periodically fetch repository activity data from GitHub, including pull requests, stars, merges, and contribution metrics.

Kathmandu University Research and Collaboration Hub - Operations Team Member

May 2025 - December 2025

- Coordinated logistics including scheduling, venue preparation, participant communication, and on-site operational support to ensure smooth event delivery.

Education

+2 NEB – St. Xavier's College, Maitighar (GPA: 3.87)

2022

BE in Computer Engineering (III/II) - Kathmandu University School of Engineering (CGPA: 3.92)

2023-Ongoing