

Padam Upreti

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TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, Java, PHP, C#, Dart, SQL, Bash, L^AT_EX

Frameworks & Libraries: Django, FastAPI, Node.js, React, Next.js, Express, Flutter, Celery, TensorFlow, Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn, NLTK, LangChain, SQLAlchemy, SQLAlchemyModel, Sequelize

Databases & Tools: PostgreSQL, MongoDB, Docker, Git, Linux, OpenCV, Swagger UI

Design & Prototyping: Figma, Canva

Concepts: Web Development, REST APIs, Machine Learning, Deep Learning, RAG, NLP, Sentiment Analysis

WORK EXPERIENCE

Visiting Faculty Member / Lab Assistant / Course Instructor

Nov 2025 – Mar 2026

Nepal Engineering College

Bhaktapur, Nepal

- Delivered instruction and managed hands-on lab sessions across 5 subjects: Data Science, Artificial Intelligence, C Programming, Cybersecurity, and Data Communication for 100+ students.
- Designed and delivered a full-stack Web Development course using Django, covering HTML, CSS, JavaScript, MVT architecture, ORM, and authentication upskilling a cohort of students from scratch.
- Provided one-on-one guidance to students on debugging and problem solving improving student performance.

EDUCATION

Nepal Engineering College (*nec*), Pokhara University

Jul 2021 – Aug 2025

Bachelor of Engineering in Computer Engineering

Bhaktapur, Nepal

- Relevant coursework: Data Structures & Algorithms, Operating System, Database Management System, Computer Networking, Web Technologies, Artificial Intelligence, Machine Learning, Software Engineering.

TECHNICAL PROJECTS

Stock Market Prediction | *Python, TensorFlow, Scikit-Learn, Django, Celery, NumPy, Pandas*

2025

- Built a stock prediction platform for NEPSE equities using both classical ML models (SVR, RF Regression, XGBoost Regression) and deep learning models (LSTM), achieving measurable prediction accuracy improvements over baselines.
- Engineered a sentiment analysis pipeline and custom feature engineering module to enrich model inputs with news data.
- Developed an async task scheduling system using Celery to automate data fetching and model retraining pipelines, reducing manual intervention.
- Delivered a Django web UI with interactive visualizations enabling real-time prediction generation.

BloodMatters – Blood Donor & Requester Platform | *Node.js, Express, MongoDB, Flutter*

2024

- **Winner** of the Best Project Competition at *nec* Ingenium 2023 from CSE Department, competing against teams from multiple student cohorts.
- Architected a full-stack web application facilitating real-time communication between blood donors and requesters, implementing a multi-step transaction workflow with live status updates to ensure safe and verified donations.
- Extended the platform by exposing API endpoints as a cross-platform mobile application using Flutter, broadening accessibility across Android and iOS.

Password Manager API | *FastAPI, SQLAlchemy, PostgreSQL*

2024

- Developed a secure REST API supporting user authentication via RSA-JWT and encrypted password storage using AES based Fernet, ensuring end-to-end data confidentiality.
- Implemented CSV-based import/export for password portability and integrated Swagger UI for interactive, self-documenting API exploration.

EduNotes – Educational Blogging Platform | *Django, NLTK, htmx, Tailwind CSS, PostgreSQL*

2023

- Built a content platform featuring article categorization, personalized collections, author following, and an automated article summarization feature powered by NLTK.
- Implemented dynamic UI interactions using htmx, reducing full-page reloads and improving user experience without a heavy JavaScript framework.

Grantha LMS – Library Management System | *Django, OpenCV, PostgreSQL, Bootstrap CSS*

2023

- Developed a library management system with QR-code-based identification (using OpenCV) as an alternative to physical ID cards, streamlining check-in/check-out workflows.
- Implemented features for book copy tracking, transaction history, automated report generation, and book request management, serving both librarians and student visitors.

LEADERSHIP & VOLUNTEER EXPERIENCE

Secretary

Jan 2025 – Aug 2025

nec IT Club, Nepal Engineering College

Bhaktapur, Nepal

- Led the coordination of workshops, technical training sessions, and webinars, growing club engagement and technical skill development across the student body.
- Authored proposals, event reports, and official club communications; managed social media and mailing accounts.

Vice-Secretary

Jul 2023 – Jan 2025

nec IT Club, Nepal Engineering College

Bhaktapur, Nepal

- Supported planning and execution of events and workshops; assisted in managing club correspondence and digital presence.

Treasurer

Dec 2022 – Dec 2023

Computer Technology and Robotonix Club (CTRC), Nepal Engineering College

Bhaktapur, Nepal

- Managed club budget, tracked equipment inventory, and presented financial reports, ensuring transparent fiscal management.

ACHIEVEMENTS

Programming Award: Received Programming Award from the graduating batch at Nepal Engineering College.

Official Developer: Selected and handled responsibility as designer and developer for the *nec* Ingenium 2025 official website.

Best Project Competition: BloodMatters project awarded first place from the CSE Department at *nec* Ingenium 2023.

Fastest Coding Competition: Developed full system satisfying given requirements under time constraint at *nec* Ingenium 2023, competing across multiple college departments and securing runner-up position.

Scholarship Recipient: Awarded scholarship for B.E. in Computer Engineering at Nepal Engineering College.