ESPARSH TAMRAKAR

📞 +977 9863441611 | ✉
esparsh.tamrakar@gmail.com | 🔗Esparsh Tamrakar | ⭕esparsh287 Kathmandu, Bagmati, Nepal

SUMMARY

I am a Computer Engineering graduate from IOE, Kathmandu Engineering College, with experience in Python, Django REST Framework, React, and Flutter. I've worked on several academic and personal projects, applying my skills to build practical solutions. I'm also eager to learn and grow in the field of Data Science, where I currently have no formal experience but strong interest.

PROJECTS

Sajha Bookstore (Minor Project)   *Technologies: Flutter, Firebase*

o   Built a cross-platform mobile bookstore app, Sajha Bookstore, using Flutter and Firebase, offering users a seamless experience to browse, search, and purchase books.
o   Integrated Firebase Authentication, Cloud Firestore, and Firebase Storage for real-time database, secure user login, and efficient data management.
o   Designed an intuitive and responsive UI for easy navigation, enabling users to add books to cart, manage profiles, and track orders.

SugarCare (Major Project)   *Technologies: Python (Django), HTML, CSS*

o   Created SugarCare, a comprehensive diabetes management web app using Django and SVM, achieving 85% accuracy in diabetes risk prediction and offering personalized recommendations for diet, medication, and hospitals.
o   Built AI-powered diagnostic tools using CNN for foot ulcer detection and diabetic retinopathy (DRP) detection, achieving **92%** and **89% accuracy** respectively, enabling early complication screening.
o   Integrated additional features including doctor-patient chat, yoga animation for lifestyle support, and a blog platform to educate and engage users in diabetes-related topics.
o   Ensured smooth user experience through a responsive, clean UI, modular backend architecture, secure user authentication, and real-time data handling for reliable and scalable performance.

Django Blog (Web App)   *Technologies: HTML, CSS, Django*

o   Built a full-stack blog application using Django.
o   Implemented features like user authentication, CRUD operations, pagination, and deployment using Django's built-in tools.
o   Used Django Templates for frontend rendering, adhering to monolithic architecture principles.

Notes App (CRUD Operation Project)   *Technologies: FastAPI, MongoDB*

o   Designed and implemented full CRUD (Create, Read, Update, Delete) functionality using FastAPI and MongoDB for backend operations.
o   Utilized Pydantic for robust data validation and schema management, ensuring clean and reliable API design.

JS Games   *Technologies: HTML, CSS, JS*

- o Whack-a-mole
- o Rock-Paper-Scissors
- o Space-Invaders
- o Frogger

EDUCATION

Bachelors in Computer Engineering   2021 – 2025
Tribhuwan University, IOE, Kathmandu Engineering College
Graduated with 83.54%   Kalimati, Kathmandu

+2 Science, NEB   2018 – 2020
Prasadi Academy
Graduated with CGPA 3.72   Kumaripati, Lalitpur

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Dart, C, C++
- **Frameworks & Libraries:** Django REST Framework, React
- **Tools & Technologies:** Jupyter Notebook Git, Github
- **Others:** Strong communication skills, Leadership, Teamwork and collaboration

CERTIFICATIONS AND ACHIEVEMENTS

- [freeCodeCamp JavaScript and Data Structures Certification](#)   November 2024

- [freeCodeCamp Responsive Web Design Certification](#)   June 2024

- Batch Topper   3rd Semester