Angelina Ghimire

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SKILLS

Data Analysis & Machine Learning: Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow
Programming Languages: Python, JavaScript, C++
Web Development: ReactJS , HTML5, CSS
Database Management: SQL , NoSQL

PROJECTS

AI-powered Document and Record Management | Python

- Developing a platform for **automating** digitization, classification, and retrieval of government documents like citizenships and passports.
- Implementing advanced **OCR** techniques using YOLO and EasyOCR to enhance document processing efficiency, text extraction accuracy and document classification.

CardioCare: Heart Disease Risk Assessment | Python

- Built a **Machine Learning** model using **Random Forest Classifier** to predict heart disease risk with 96% accuracy.
- Utilized **NumPy** and **Panda**s for data manipulation and feature engineering.
- Leveraged **Matplotlib** and **Seaborn** for data visualization and exploration.

Abhilekh : Digitizing Nepali Stone Inscriptions | Python, Flutter

- Spearheaded a collaborative effort to develop a mobile-based application dedicated to digitizing ancient Nepali stone inscriptions, or enhanced accessibility and preservation.
- Focused on the backend, implementing advanced image processing techniques in Python, including **Otsu, Niblack**, and **Sauvola algorithms,** for efficient binarization of stone inscription images.
- Leveraged Flutter to construct a mobile application facilitating the capture and upload of stone inscription images with real-time algorithmic application.

Laali Period Tracker | C++

- Conceptualized, designed, and developed a period tracker and menstrual hygiene awareness app tailored specifically for Nepali women.
- Utilized C++'s Armadillo library to implement predictive analytics algorithms, offering personalized insights to users for better menstrual health management.

SortPy: Interactive Sorting Algorithm Visualizer | Python

- Engineered a comprehensive sorting algorithm visualization project in Python using **Pygame** and **OpenGL**, showcasing **Merge, Insertion, Quick, Heap, and Bubble sort algorithms**.
- Designed with user-friendly controls and detailed algorithmic explanations to facilitate intuitive exploration and understanding.

EDUCATION

Kathmandu University   Dhulikhel, Kavre, Nepal
B.Sc. in Computer Science   2020 – 2025
- 4th Semester Topper and Scholar

Rato Bangala School   Patandhoka, Lalitpur, Nepal
Cambridge International A-levels   June 2019
- Cumulative GPA: 4.0
- Merit-Based Scholarship Recipient

Secondary Education Examination   2017
- Cumulative GPA: 3.7

AWARDS AND HONORS

GHC Advancing Inclusion Scholar 2024

Awarded virtual attendance to the Grace Hopper Celebration, the world's largest gathering for women and non-binary technologists.

WEAmplify Scholar 2023

Scholarship recipient for Harvard WECode, the largest annual undergraduate Women in Tech conference at Harvard University.

TRAININGS

AI Fellow - Fusemachines May 2024 - Oct 2024

- Selected among 200 participants from 3000 for the dynamic 6-month Fusemachines AI Fellowship program, led by global AI and tech experts.
- Engaging in hands-on learning covering advanced topics in AI and ML, including Generative AI, Machine Learning, Computer Vision, NLP, Neural Networks, and MLOps.

Fellow - Women Leaders in Technology Oct 2023 - Aug 2024

- Selected for the 2023/24 cohort of the prestigious seven-month fellowship empowering women in tech.
- Completed intensive boot camp covering **JavaScript, Node.js, MongoDB**, and participated in **leadership sessions** on Design Thinking, Problem Solving, and other soft skills.
- Engaged in one to one mentorship sessions to further develop skills and leadership abilities.

Machine Learning Bootcamp Participant - AIML Nepal Oct 2023 - Aug 2024

- Completed an intensive Machine Learning Bootcamp organized by AIML Nepal, gaining practical experience and insights into state-of-the-art machine learning techniques and applications.
- Demonstrated proficiency in applying cutting-edge machine learning methodologies to real-world datasets, enhancing problem-solving skills and analytical capabilities.

ACTIVITIES

Kathmandu University Computer Club

Vice President	Feb 2023 - March 2024
Executive Member	Dec 2021 - Feb 2023

- Organized large-scale departmental events like IT Meet and KU Hackfest, attracting over 5,000 participants.
- Led the ideation and execution of successful club events like talk shows and workshops.
- Managed the club's social media accounts, growing the following to over 1,000 engaged members.

Core Community Member - AIML Nepal Oct 2023 - Aug 2024

- Initiated and led outreach efforts, fostering collaborations with diverse organizations and institutes.
- Coordinated and facilitated AI, ML, and Data Science workshops, talk shows, and bootcamps.
- Produced compelling promotional content and managed social media channels to enhance community engagement.

Editor-in-Chief - IT Express Aug 2023 - March 2024

- Directed the editorial team for the departmental magazine *IT Express*, overseeing a team of 15 individuals.
- Managed and guided writers, editors, designers, and volunteers to ensure the production of high-quality content.
- Coordinated the entire publication process from inception to printing, and distributed over 300 copies, reaching an audience of 1500+ readers.

Organizing Volunteer - Women in Data Science Kathmandu Oct 2023 - Aug 2024

- Orchestrated speaker recruitment for data science workshops, ensuring high-quality presentations.
- Proficiently managed Zoom meetings for seamless conference execution.
- Crafted compelling promotional content to drive engagement and attendance for data science conferences.

References are available upon request.