Suramya Pokharel

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SKILLS

PROGRAMMING LANGUAGES | Python ● Java ● R ● C++

MACHINE LEARNING FRAMEWORKS | Tensorflow ● Pytorch ● scikit-learn

DEEP LEARNING | Neural Network Design ● Natural Language Processing (NLP)● CNNs ● RNNs

COMPUTER VISION | OpenCV ● Object Detection and Recognition ● Image Processing

DATA HANDLING | Numpy ● Pandas ● Matplotlib ● Feature engineering ● Data Cleaning

DATABASE MANAGEMENT | SQL ● MongoDB

SOFTWARE DEVELOPMENT | Version control (Git) ● Agile Methodologies

OTHER TOOLS | Jupyter Notebooks ● Docker ● LaTeX ● Gimp

PROJECTS

PUZZLE FLOW | Primary Coder and Joint Leader
May 2023 – Present | Thapathali Campus, Kathmandu

- Proposed the usage of generative models in the sector of restoring shattered documents and gene assembling.
- Implemented Flow-based generative AI model along with Vision Transformer (ViT) to acquire high accuracy.
- Used Python as the main programming language and Pytorch to implement the said models.

AN ELECTRONIC WATCH DOG | Joint Lead for Software Implementation
Nov 2022 – Mar 2023 | Thapathali Campus, Kathmandu

- Lead the development of face detection system that relied on Haar Cascades to determine the facial area during live video feed.
- Constructed a robust system relying on FaceNet architecture to recognize the detected faces.
- Employed SMTP protocol to send email containing the photos of unrecognized faces to the owner.
- Coded Arduino micro-controller with subsequent code and aided in assembling and soldering the electronic components.

HOSPITAL MANAGEMENT SYSTEM | Class project for database management system
Jun 2022 – Aug 2022 | Thapathali Campus, Kathmandu

- Employed mySQL database system to store data of patients, doctors and other involved faculties of hospital.
- Created back-end functions connecting the database to the hospital website to ensure fast and proper transfer of information.
- Aided the front-end development of website through basic CSS and Django coding.

EDUCATION

THAPATHALI CAMPUS, TRIBHUVAN UNIVERSITY
Bachelors in Electronics, Communication and Information Engineering
Expected Apr 2024 | IOE, Thapathali, Kathmandu

TRINITY INTERNATIONAL COLLEGE
High school diploma, Computer Science
Jun 2017 - Dec 2019 | Dillibazar, Kathmandu

COURSEWORK

Data Structures and Algorithms
Data Mining
Artificial Intelligence
Database Management System
Computer Graphics
Digital Signal Analysis and Processing
Operating Systems
Calculus I-IV
Discrete Structure
Object Oriented Software Engineering
Probability and Statistics

LINKS

Github: **SuramyaP**
LinkedIn: **Suramya Pokharel**

INTERESTS

Chess ● Reading ● Piano ● Fitness ● Self Improvement ● Sports