ISHWORI KHANAL

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Portfolio:https://ishworkhanal.vercel.app/

SKILLS

Languages: Python, C, C++, JavaScript, TypeScript, HTML, CSS, Scala

Technology Stack: NumPy, Pandas, TensorFlow, PyTorch, AWS(EC2, S3, Lambda, CloudWatch, RDS), FastAPI, Django,DRF, Flask, NodeJS, ReactJS, PostgreSQL, MySQL, MongoDB, PyPDF2, PDFMiner, ScraPy, Selenium, Akka, BeautifulSoup,Docker,CI/CD

WORK EXPERIENCE

Upwork *Freelance* | Profile Link : https://www.upwork.com/freelancers/~012d5eba9d8306c699
April 2021 – Present

- Programmed an efficient script that reduced query times by optimizing asynchronous tasks, using asyncio and aiohttp to query APIs and collect data.
- Built a FastAPI-based RESTful API for managing products, orders, and users with JWT authentication.
- Implemented deep learning on network datasets using TensorFlow and PyTorch for multilabel classification, achieving high accuracy.
- Wrote a highly flexible Python script to extract data from PDFs using PyMuPDF, PyPDF2, PyTesseract, and pdf-plumber.
- Collaborated with the client to implement the XGBoost algorithm and hyper-tuning the algorithm for the best results.
- Built multiple scripts to scrape data from multiple websites using Selenium, ScraPy, and BeautifulSoup.
- Built comprehensive system to extract complex tabulated data from large PDF using PyPDF2 and tabula-py

Belvy LLC
Python Developer   *June 2021 – October 2021*

- Visualized complex data using seaborn and matplotlib.
- Applied PCA to extract features from the dataset.
- Explored AWS services(EC2, S3) to deploy the API and monitor the deployed API.
- Built multiple APIs using Flask for OCR projects.

Soft Skills: Problem-Solving, Leadership, Detail-oriented, Ability to perform under pressure, Growth-oriented, Critical and Analytical Thinking,Communication Skills

PROJECTS
➢ **Academic Projects**
- ***Object Detector and Tracker Robot***
  Led a team of four to build the robot and applied the Single Shot Detection(SSD) algorithm to achieve object detection and tracking with high accuracy.

- ***Signal Detector and Jammer Circuit***
  Collaborated with team members to construct a signal detector and jammer circuit using 555 timer IC.

➢ **Personal Projects**
- ***Social Media Management API***
  Developed a scalable RESTful API using FastAPI for managing users and blog posts with JWT-based authentication. Features include CRUD operations, real-time notifications via WebSockets, and interactions like likes, dislikes, and comments. Utilized SQLAlchemy, PostgreSQL, and Alembic for database management and migrations

- ***Custom Database***
  JSON based ACID compliant database written in Python from scratch.

- ***Chess Engine with GUI***

  Engineered a complete chess engine featuring minimax search with alpha-beta optimization, achieving tactical awareness
  through quiescence search and position evaluation. Designed an intuitive GUI with move history, real-time evaluation,
  and PGN export capability. Implemented performance optimizations including transposition tables and move ordering,
  resulting in efficient tree pruning and improved search depth.

MISCELLANEOUS

- Open Source Contribution
   Contributed to qiskit-terra in fixing bugs and unit testing.
- Volunteering
   Volunteered as a trainer in several Python Bootcamps for beginners.
- Certificates

Introduction to Quantum Computing by IBM | IBM Quantum Challenge 2021
Achievement - Advanced

EDUCATION

Atlantis University
Master's in Information Technology   *Currently Attending*

IOE Western Regional Campus, Pokhara
Bachelor's in Electronics and Communication Engineering   *2017-2021*