Bigyapti Bashyal

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Education

Institute of Engineering, Pulchowk Campus Nov 2019 – Apr 2024
Bachelor in Computer Engineering *Pulchowk, Lalitpur, Nepal*

- **Relevant Coursework:** Python, Data Structures, Object-Oriented Programming, Database Management Systems, Web Development, Project Management, C.

Technical Skills

Languages: Python, SQL, JavaScript, C, C++
Databases: PostgreSQL, MongoDB
Data Engineering: ETL Tools (Pentaho)
Data Analysis: Pandas, Seaborn
Machine Learning: TensorFlow, OpenCV
Cloud Computing: Amazon Web Services (AWS)
Full-Stack Development: HTML, CSS, React.js, FastAPI, Flask
Version Control: Git, GitHub

Experience

Hydro Lab Jan 2024 – Mar 2024
Software Intern *Lalitpur, Nepal*

- Acquired image data from Basler cameras using PyPylon in Python.
- Synchronized captured images using custom algorithms for consistent data alignment.
- Processed and saved images with OpenCV for computer vision analysis.

Webacy Web3 Security Data Analytics Externship Jul 2024 – Aug 2024
Extern *Remote*

- Analyzed smart contract vulnerabilities, identifying common risks and their connections.
- Conducted data accuracy checks to ensure reliable smart contract analysis.
- Applied machine learning techniques, including frequency analysis and clustering, to detect patterns in smart contracts for enhanced risk profiling.

Verisk Nepal Jul 2024 – Present
ETL Trainee *Lalitpur, Nepal*

- Gained foundational knowledge in data warehousing concepts and architecture.
- Developed ETL pipelines using Pentaho to automate data extraction, transformation, and loading processes.
- Utilized Python and SQL for data manipulation and analysis, enhancing data processing efficiency.
- Implemented shell scripting for automation of routine data tasks and AWS services for cloud-based solutions.

Projects

CV Analyzer | *Python, TensorFlow, NLTK, Flask, MongoDB*

- Developed a resume analysis tool using NLP techniques, such as Named Entity Recognition (NER) and NLTK, to analyze resumes and rank candidates.
- Implemented NLP pipelines for extracting key information like skills, experience, and education from resumes.
- Automated resume screening and ranking for efficient hiring processes by accurately extracting and analyzing candidate information.

Webpage Summarizer | *Python, Selenium, Google Gemini API, Gradio*

- Created a tool for web scraping and summarization that condenses webpage content into key points.
- Integrated Selenium for dynamic web scraping and Google Gemini API for accurate content summarization.
- Designed a user-friendly interface using Gradio, enabling quick access to summarized information.

NLPR (Helmet and License Plate Detection System) | *Python, YOLOv8, OpenCV*

- Built an application to detect helmets and Nepali license plates using YOLOv8 for computer vision.
- Implemented image processing techniques to enhance detection accuracy and speed.
- Deployed the model as a web app for real-time detection in surveillance systems.

Certifications

AWS Certified Cloud Practitioner | *Amazon Web Services (AWS)*