Shrestha, Pratham

ML engineer

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Professional Summary

Software Engineer with experience in backend development, web scraping, and RPA automation using Python and Django, currently pursuing a Postgraduate Certificate in Artificial Intelligence at Seneca College. Passionate about building real-world AI solutions and seeking internship opportunities in machine learning.

Technical Skills

Languages:	Python, JavaScript
Developer Tools:	Pandas, NumPy, Selenium, Git, GitHub, Docker, Postgres, Linux, SQLite, RestAPI, Nmap
Frameworks:	Django, Robot Framework, FASTAPI, Scrapy, Crawlee, NodeJS
Cloud/Databases:	AWS, SQLite, PostgreSQL
Soft Skills:	Adaptability, Time Management, Communication, Problem Solving, Team Work, Attention to Detail

Education

- **Sagarmatha Engineering, Lalitpur**   2017-2022
  Bachelor in Computer Engineering
- **Seneca College**   Jan, 2025-Ongoing
  Post Graduate in Artificial Intelligence

Certification AND Training

IW Academy – SOFTWARE ENGINEERING BOOTCAMP
IW Academy | August, 2020

Supervised Machine Learning: Regression and Classification
Coursera | November, 2023

Experience

- **Parsedom**   October 2023 – Present
  Intermediate Backend Developer   Canada

  - Scrapped, transformed and stored data in a database for several projects and websites reducing data redundancy and maintainging data consistency and .
  - Created a dockerized system for in house package built on top of scrapy framework.

- **QuickFox Consulting**   February 2023 – September 2023
  Software Engineer   New Baneshwor

  - Scrapped, transformed and stored data in a database for WHO and sent a report with data with the given format.
  - Extracted data using desktop automation for BIR hospital while transforming and sending the data to email or timely schedule which helped to generate reports 80
  - Designed and implemented Abstract Factory Method for news aggregator application which scrapes news from nearly 35 portals.
  - Developed scripts to perform data transformations as part of the ETL process.
  - Improved code structure while mentoring interns to follow the best code practices for writing efficient codes.
  - Researched OCR models to use for desktop automation to increase the accuracy for text extraction.
  - Made multiple APIs for the mobile App QuickSamachar in FASTAPI.
  - Researched ffmpeg for video streaming to integrate into the QuickRPA platform.
  - Reviewed and maintained code structures following standard practices such as PEP8.

- **QuickFox Consulting**   November, 2022 - february, 2023
  Software Engineer Intern   New Baneshwor

  - Researched and presented a session for version control such as GIT and coding principles.
  - Studied, developed and deployed software bots using Robot Framework for various projects, automation repetitive tasks.

Professional Projects

- **NPS Reconciliation**

  Generates matched and unmatched reports for transactions between bank and NPS(Nepal Payment Solution).

  - Python, Selenium, SQLite, Pandas, Robot Framework, IMAP
  - Developed RPA bot to generate reports for matched reports unmatched reports. Data is retrieved, cleaned and standardize properly from different sources of both SOA and bank statements to match transaction between Bank statements and SOA reports.
  - Used abstract factory method and created a simple decorator to distinguish phases. And their code.

- **QuickSamachar**

  News aggregator App to get news from multiple sources

  - Python, Selenium, SQLite, FASTAPI, IMAPSmtp, BeautifulSoup
  - Developed RPA bot to scrape from over 35 Newswebsites to extract data

- **Quick-analytica**

  Extracts and Loads NRB data

  - Python, Selenium, SQLite, pandas, IMAPSmtp
  - Developed RPA bot to extract and load NRB data maintaining inconsistent nature with time.

- **Bir Hospital Sensitivity Report**

  Generates Report in the WHO standadized format.

  - Python, Desktop Automation, SQLite, pandas, IMAPSmtp
  - Developed RPA bot to retrieve data from MIDAS Application using dekstop automation and manipulate data in specific WHO format and generate report of those data.

- **Appartment Scanner**

  Extracts data from different appartment websites and compiles into a single portal.

  - Python, Scrapy, Django, JS, HTML, CSS, MySQL
  - Created a scraping system to extract data which is compiled into a website created using django.

Personal Projects

  - Bookseeker

    Built a portal to buy brand new or second-hand books

    * Python, Django, JavaScript, ReactJS
    * Developed a website that is versatile for the sellers as this platform provides usable dashboard.

  - Hairstyle Recommender

    This app gives users the hairstyles from their own face shape.

    * Python, Django, Pandas, Javascript, TensorFlow
    * Remodeled CNN model to use face detection and recommend hairstyle based on the facial structure.