Mayank Sharma

Python Developer

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Objective

I want to work for an organization that provides me the opportunity to improve my skills and knowledge to grow along with the organization's objective.

Technical Skills

- Hands-on experience & familiarity with processes in Python Development.
- Worked on **object-oriented programming (OOP)** concepts using Python.
- Wrote scripts in Python for extracting data from HTML files.
- Created **RESTful API** calls with the server, and parsed output reports of excel files.
- Unit Test Python library **PyUnit** was used for testing many programs on python.
- Used python library **pandas** and **matplotlib** for the data analysis and data manipulation
- Worked on extracting data (text, images) from multiple documents in different formats.
- Worked with common Python libraries such as **OpenCV, Tkinter, Tesseract & Pillow**.
- Experienced in working with Python Integrated Development Environments like **PyCharm**.
- Common usage of **Git & GitHub** for version control.
- Good troubleshooting and debugging skills.
- Excellent **communication and interpersonal** skills and **analytical** skills.
- Worked on Data using **Tableau Dashboards** and Data Categorization.
- Worked on **SQL** with basic knowledge of **MySQL Database**.
- Quick **learner** and good performer both in team and independent job environments.

Project History

1. **The Python Imaging Library** – *manipulate images using the Python imaging library (pillow)*
   - Made a contact sheet for digital photographers, took one image and created nine different variants based on the brightness of that image using the **pillow** library.
   - Used PIL.ImageDraw module to bring about changes in the image saturation and brightness.
   - Used PIL.ImageFont module to enhance the text and other variants to display images with improved text characterization.

2. **Optical Character Recognition** – *optical character recognition to images to recognize text (tesseract)*
   - Used **tesseract** to detect multilingual text from an image and manipulate it to get the desired result.
   - Used **py-tesseract** and loaded the results into a CSV file of all the results that were captured using OCR.

3. **Computer Vision with OpenCV** – *identify faces in images using the popular library (opencv)*
   - Used **OpenCV** to detect the shapes of coins in an image by implementing python code and modules.
   - Made a program to detect the coin values only by accessing the image of the coin and its diameter.

4. **Sentiment Scorer** – *analyze social media post sentiments & create visualization (matplotlib)*
   - Used **Twitter API** along with python to categorize the tweets into positive, negative and neutral depending upon the context of the tweets.
   - Used **Matplotlib** to produce a graph representing the most liked and most number of retweets that were regarded as positive messages.

5. **Calculator App -** *a fully functional basic calculator app* **(tkinter)**
   - Used **Python OOPs** concepts to make a functional calculator app
   - Used **Tkinter** to make a GUI based application, interactive window and buttons for calculation.

Education

Amity University, Noida, UP, India – *2019*
B.Tech in Nanotechnology, *CGPA: 6.74*

M.V.N, Aravali Hills, Faridabad, HR, India – *2013*
XII in Science Stream, *CGPA: 80.6%*

D.A.V Public School, Faridabad, HR, India – *2011*
X, *CGPA: 7.6*

Skill Certifications

- Python for Absolute Beginners - Python Beginner to Pro 2021 – *Udemy, Apr 2022*
- The Python Bible: Everything you need to program in Python – *Udemy, Aug 2022*
- Python 3 Programming Specialization – *University of Michigan, Jun-Sep 2022*
  - Python Basics – *Jun 2022*
  - Python Functions, Files, and Dictionaries – *Jul 2022*
  - Python Classes and Inheritance – *Aug 2022*
  - Data Collection and Processing with Python – *Aug 2022*
- SQL Course for Beginners : Learn SQL using MySQL Database *- Udemy, Jan 2023*
- Python Data Science *- Ducat India , Apr-Sep 2023*

Academic Certifications

- Robotics & Embedded C – *Robosapiens, 2017*
- Nanomaterials and Nanotechnology – *Biolim Centre of Science and Technology, 2016*
- English and Communication Skills – *Amity University, 2019*
- German Language – *Amity University, 2019*
- Behavioral Science – *Amity University, 2019*

Other Interests

- Reading Novels & Articles
- Writing Blogs