

# Neha Shewale

## Python Developer



(+91) 9767682810



nehashewale3010@gmail.com



Pune, Maharashtra



<https://www.linkedin.com/in/neha-shewale/>

### Summary

As a Python Developer with over 2 years of experience in the computer software industry and a Master's degree in Applied Mathematics, I possess a strong skill set in Python, Django, Flask, and Rest API. My passion lies in utilizing data-driven approaches to solve real-world problems effectively. I am currently seeking an opportunity that allows me to deliver my best work, thrive in challenging situations, and unlock my full potential, all while having access to continuous learning opportunities.

### Education

#### Master of Science in Applied Mathematics

Department of Mathematics Pune University - Pune, Maharashtra  
April 2020

#### Bachelor of Science in Mathematics

Pune University - Pune, Maharashtra

### Skills

**Technologies:** Python, SQL

**Frameworks / Database:** Django, Flask, My SQL, Postgre SQL, SQLite3, Rest API.

**Libraries:** NumPy, Pandas, Matplotlib, Seaborn, OpenCV

**Tools and IDEs:** Anaconda, Jupyter, Google Colab, PyCharm, Visual Studio Code.

**Others :** Selenium WebDriver, Web scraping, SQLALchemy, Google Cloud (GCP), Git and Git Lab version control systems.

### Trainings and Certifications

- Python and Django Full Stack Web Developer Boot camp.
- Rest APIs with Flask and Python.
- Training in Python Programming from Ethan’s Tech.

### Professional Experience

TechSpawn Solutions, Pune- Python Developer **(April 2023 to Present)**

- **Python Developer**
  - Proficient in Python programming and skilled in utilizing various Python libraries for data manipulation and analysis.
  - Experienced in working with web frameworks such as Django and Flask, leveraging ORM (Object-Relational Mapping) for efficient database interactions.
  - Capable of developing RESTful APIs using Flask and Django, enabling seamless communication between frontend and backend components.
  - Experienced in API integration with Flask and Django, connecting applications to external services for enhanced functionality.
  - Proficient in utilizing PostgreSQL as a robust and scalable relational database for data storage and management.

Neutrino Tech Systems, Pune - Python Developer **(April 2022 to March 2023)**

- **Python Developer**  
**Project Title: Medical Document Analysis and OCR Optimization (Nimble Docs)**

- **Data Cleaning and Analysis:** Implement robust data cleaning and preprocessing techniques to ensure accurate and reliable data for analysis. Explore and analyze medical documents to identify relevant information and key entities.
- **OCR Optimization API:** Develop a Tesseract OCR API as an affordable alternative to commercial OCR services, enabling the extraction of text from images and PDFs at a reduced cost.
- **Flask API Integration:** Integrate the OCR Optimization API within a Flask framework to provide a user-friendly interface for data extraction from various sources.
- **Refactoring for Efficiency:** Refactor existing code to optimize execution and processing times. Streamline the OCR process by removing unnecessary steps and enhancing overall application efficiency.
- **Disease Name Identification:** Implement an algorithm to identify disease-related terms extracted from the medical documents. Automatically highlight disease names to facilitate quicker data scanning for researchers and medical professionals.
- **Costing and Billing Optimization:** Perform OCR analysis and PDF analysis to optimize costing and billing processes. Enhance accuracy and reduce manual intervention in the billing and costing procedures.

### **Project Description:**

The goal of this project is to develop a comprehensive data analysis and optimization solution for medical documents in the Named Entity Recognition (NER) field. The project will involve extracting valuable information from unstructured data sources such as PDFs and images and streamlining the Optical Character Recognition (OCR) process for cost-effective and efficient text extraction.

OMFYS Technologies India Pvt. Ltd, Pune - Junior Python Developer **(September 2021 to March 2022)**

- **Junior Python Developer**  
**Project Title: Web Scraping and Django Application Development for Data Analysis and Automation**
  - 1. Web Scraping Project:**
    - Utilized Selenium WebDriver, Python, and BeautifulSoup for web scraping.
    - Responsible for setting up and managing the scraping process.
    - Analyzed the collected data and presented findings to the project team.
    - Focused on writing reusable, testable, and efficient code to improve software quality and reduce development time.
  - 2. Django Application Development Project:**
    - Contributed to a Django application following the MVT (Model-View-Template) architecture.
    - Designed database models to efficiently manage data.
    - Created views and integrated templates for a robust and scalable web application.
    - Prioritized writing reusable, testable, and efficient code to enhance software quality and development speed.
  - 3. Python Automation Experience:**
    - Proficient in Python automation, including scripting and process automation.
    - Leveraged Python's libraries and frameworks to streamline tasks, increase efficiency, and reduce errors in various processes.

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### **External Python Projects and POCs:**

#### **Project Title: Extract Data from Multiple URLs (Web Scraping)**

- Successfully performed web scraping from multiple paginated URLs using Selenium WebDriver, BeautifulSoup, and Pandas.
- The scraping process involved extracting diverse data, including images, links, and titles, with a focus on achieving both efficiency and accuracy in data extraction.
- "I extracted valuable data through the web scraping process, which can be utilized by the data team for future analysis and decision-making purposes."

#### **Project Title: Movies Collection Services (Django, Flask, ORM, REST API)**

- **Integration with Movies Listing API:** Integrate with an external Movies Listing API to fetch real-time movie data, such as titles, genres, release dates, and ratings.
- **Movies Collection APIs:** Implement custom APIs to manage movie collections, allowing users to add, update, delete, and retrieve movie records. Enable users to search for movies based on various criteria, such as genre, rating, or release date.
- **Request Counter Middleware:** Implement a request counter middleware to keep track of incoming API requests.

#### **Project Overview:**

The Movies Collection Services project aims to create a robust and efficient system for managing movie collections. The project will leverage Django and Flask frameworks, along with ORM (Object-Relational Mapping) and REST API, to build a scalable and user-friendly application.

#### **Project Title: Blog Post Application (Django, Flask, ORM, REST API)**

- Created three tables in Database.
  - CRUD operations will be implemented for the User table, allowing users to register, log in, update their profiles, and delete their accounts.
  - The API response will include the number of likes associated with each post/blog, providing valuable feedback on post popularity.
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### **Languages Known:**

- **English**
- **Hindi**
- **Marathi**



