Lokesh Kumar
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Experience:
Developer | Tata Consultancy Services | 17 Feb 2020 - Present
- Collaborated with cross-functional teams to gather and analyze business requirements.
- Designed automation solutions (web app, desktop app and cloud flow) for US based clients (Gilead Science, Zimmer Biomet and Quest Diagnostic)
- Developed interactive dashboards and reports using Power BI, enabling stakeholders to make informed decisions.
- Executed complex SQL queries for data extraction, transformation, and loading (ETL) processes.
- Utilized Python's pandas library for data preprocessing and analysis, resulting in streamlined workflows.
- Designed and implemented data automation workflows using Power Automate in cloud environments.
- Led data quality initiatives, identifying and resolving data inconsistencies to enhance accuracy.
- Contributed to process optimization by providing actionable insights from data analysis.

Skills:
- Web Scrapping: Skilled in scraping info from websites with the help of Beautiful Soup and Selenium Webdriver.
- Data Analysis: Proficient in extracting insights from raw data and websites using SQL and Python.
- Data Visualization: Created interactive and meaningful visualizations using Power BI.
- Cloud Automation: Experience in designing automated workflows using Power Automate.
- Python Libraries: Skilled in using pandas, Beautiful Soup, requests, PyPdf2, docx, async, logging …
- Database Management: Proficient in SQL for data querying, manipulation, ORM and database design.
- Web Development: Familiar with Django, Streamlit and Fast API framework for building web app and APIs.
- Deployment: Familiar with Nginx, Docker (Container, image), Jenkins Continuous Integration Pipeline with Git.
- Problem Solving: Adept at identifying trends, patterns, and outliers in datasets.
- Communication: Strong verbal and written communication skills for presenting insights to non-technical stakeholders.
- Cloud: AWS (EC2, S3 Bucket and AWS Lambda)

Education:
Master's Degree in Computer Applications | AKTU/UPTU | 2020

Portfolio:
- EasterScience.in: (https://www.easterscience.in)
- EasterScience.com: (https://www.easterscience.com)
- YouTube Channel (EasterScience) focusing on C, Python, Software and API Development and Tech Gadgets

Trainings & Certifications:
- Power BI Certification (Udemy)
- Google Analytics for Beginners (Google)
- Django Certification (Udemy)
- MySQL Databases (Udemy)
- Web Scraping (Udemy)
- Selenium WebDriver with Python (Udemy)
- Python Bootcamp (Udemy)

Projects:

Create Structured Database from Raw Excel Data
 - Transformed a complex raw Excel file into a Structured Database Table containing multiple sheets and data stored within single cells using various delimiters.
- Developed a systematic approach to extract and parse data from different delimiters, ensuring accuracy and reliability of information.
- Utilized Python and pandas library to read and manipulate Excel data efficiently.
- Devised a strategy to group and categorize data rows based on specific criteria, in preparation for database insertion.
- Collaborated with the development team to design a new database schema tailored to the requirements of a web application tool.
- Achieved optimal performance by optimizing the database insertion process, leading to a significant reduction in processing time.
- Documented the entire process, including data transformation steps, database schema, and insertion procedures, facilitating knowledge sharing within the team.
- Worked closely with stakeholders to understand their requirements and incorporated feedback to refine the database structure and data handling.
- This experience demonstrated my ability to navigate complex data scenarios, collaborate with cross-functional teams, and develop innovative solutions to transform raw data into a usable and valuable resource for the organization.
- **Key Technologies Used:** Excel, Python, pandas, Database Design, Data Transformation, Data Integrity, Collaboration, Documentation.

Designed Multiple Automation Solution: Gilead Science (Contractor)
 - *Key Technologies Used: Python-Django, JS, HTML, CSS, Bootstrap, SQLite, Fast API and Graph API*
- Company Distribution Management Tool.
- PDF Blue Link Validator (To check if any broken link present in the pdf files)
- Adverse Event Management Tool (To send adverse event's emails to responsible associate)
- Application Metrics Tool (To display the insights, usages, time saved and other info via API calls)

Transformative Data Enhancement & Visualization Project
 - Led a comprehensive initiative to revamp a non-database website with .cfm index files.
- Employed Beautiful Soup for web scraping, extracting data from the website's structure.
- Designed a structured database, capturing hyperlinks of products and sub-products.
- Constructed a secondary database integrating essential product attributes via Python.
- Utilized the CTgov API to extract clinical trial data, enriching the dataset further.
- Created a hierarchical directory structure and customized templates for each product and version.
- Successfully launched a polished website with updated information, intuitive navigation, and removed broken links with docker and nginx.

Data Analysis and Process Enhancement
- Designed and implemented a prototype for an enhanced version of an existing web application.
- Leveraged Power Automate Cloud Flow to seamlessly access a shared inbox, eliminating the need for manual authentication.
- Addressed the challenges posed by the previous version, which required annual renewal of Graph API Credentials and complex approval processes due to third-party integrations and numerous installed libraries on the server.
- Streamlined the client-side authentication process by eliminating the need for Graph API Credentials renewal and associated waiting times.
- Successfully integrated the Power Automate Cloud Flow solution, enabling secure and efficient communication with the shared inbox without compromising data integrity.
- Improved the overall application workflow by reducing reliance on external approvals and dependencies, resulting in enhanced user experience and increased operational efficiency.
- Received positive feedback from stakeholders for the innovative approach to addressing authentication challenges and improving system reliability.