

# Praveen S

## Data Engineer - Web Scraping



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Data Engineer / Web Scraping with 3+ years of experience building automated data extraction and ETL pipelines using Python, SQL, Selenium, BeautifulSoup, and Streamlit. Proven expertise in large-scale web scraping, API integration, data cleaning, and transforming raw data into analytics-ready datasets. Experienced with PostgreSQL and SQL Server, and in building interactive dashboards using Power BI and Streamlit. Strong client-facing skills with a proven track record of delivering SLA-driven data solutions.

### Experience

#### Associate - Data Engineer - Web Scraping - Cognizant

2022 - Present

- Data Request Management:** Evaluated and fulfilled client data requests, ensuring timely and accurate delivery in compliance with SLAs.
- Data Extraction & Client Collaboration:** Worked closely with clients to understand data requirements and deliver customized data extractions using SQL, PostgreSQL, and Shell scripting for automated ETL workflows.
- Workflow Automation & Web Scraping:** Developed automated data extraction and transformation pipelines using Python (Pandas, NumPy) and Shell scripting; built scalable web scraping solutions using BeautifulSoup, Selenium, including CAPTCHA handling and anti-bot workarounds.
- Advanced SQL & Data Transformation:** Wrote complex SQL queries (joins, CTEs, subqueries) in PostgreSQL and SQL Server to retrieve, transform, validate, and optimize datasets.
- Data Quality & Normalization:** Designed and implemented data cleaning, validation, and normalization routines, improving data accuracy and downstream analytical reliability.
- Data Analysis & Dashboarding:** Generated actionable insights using Python and SQL; developed interactive dashboards using Power BI and Streamlit to monitor KPIs, trends, and business metrics.
- API Integration:** Integrated third-party REST APIs for real-time data extraction and enrichment; utilized HTML and CSS for web-based data access and scraping.
- Dashboard Automation:** Automated Power BI and Streamlit dashboards, enabling real-time data refreshes and reducing manual reporting effort.
- Client-Centric Reporting:** Customized datasets and dashboards to align with business goals and stakeholder requirements.
- Reusable Scraping & Storage Modules:** Built reusable web scraping, CAPTCHA-handling, and data storage modules, accelerating onboarding of new data sources.

### Education

#### R.M.D.Enigneering College - Anna University

2018-2022

- Bachelor of Engineering in Electrical and Electronics

CGPA: 8.1

### Skills

- Web Scraping & Automation :Selenium, BeautifulSoup, REST APIs, PowerShell, CAPTCHA handling
- Programming & Data Processing :Python (Pandas, NumPy, Streamlit), SQL
- ETL & Data Engineering :Data Pipelines, Data Cleaning, Transformation, Normalization
- Databases : PostgreSQL, MS SQL Server
- Data Analysis & Visualization :Power BI, Tableau, Streamlit, Matplotlib, MS Excel
- Web & App Development :HTML, CSS, Flask, Bootstrap
- Statistical & Analytical Methods :Hypothesis Testing, Pattern Recognition
- Other Skills :Client Communication, Stakeholder Collaboration, Requirement Gathering

### Projects

#### Amazon Hunter – Automated Amazon Product Scraper (Web Scraping to Structured CSV)

- Built a Selenium-based scraper for Amazon India to extract product name, price, and ratings across multiple categories, handling dynamic content, pop-ups, and exporting data to CSV/JSON.

#### CAT Tracker: Incident Data Classification and Visualization App

- Developed a web-based tool to upload and categorize incident data from CSV/Excel files, generate visual summaries with charts, and export structured reports for analysis.

#### End-to-End Churn Analysis using Python, Pandas, and Matplotlib

- Analyzed Spotify user data to identify churn trends and behavioral patterns across subscription types and usage habits. Delivered insights on customer retention factors through data visualization and reporting.”