

SOORAJ M S

DATA ENGINEER | AI & AUTOMATION SPECIALIST

Kerala, India | +91 9207970707 | soorajms0707@gmail.com

LinkedIn: <https://www.linkedin.com/in/soorajs0707> | GitHub: <https://github.com/soorajms0707>

PROFESSIONAL SUMMARY

Data Engineer & AI Enthusiast with 2+ years of experience in designing and deploying scalable data solutions. Proven ability to optimize workflows, enhance data reliability, and leverage AI-driven automation to deliver actionable insights faster. Skilled in Python, ETL, cloud platforms (AWS, Azure), and anti-bot detection strategies.

WORK EXPERIENCE

DATA MINING ENGINEER - HASHWAVE TECHNOLOGIES, KERALA, INDIA | 2023 - PRESENT

- Led R&D initiatives, delivering proof-of-concept tools to solve complex data challenges.
- Developed robust web scraping solutions using Scrapy, Playwright, and BeautifulSoup.
- Automated large-scale data cleaning with Pandas and regex for faster, more accurate outputs.
- Researched and implemented AI-driven methods to increase scraping and processing speed.
- Built and deployed data pipelines integrating MySQL and MongoDB.
- Optimized tools to adapt to site changes and bypass CAPTCHA/anti-bot systems.
- Mentored engineers and trained new hires, boosting team capability and delivery speed.
- Integrated REST APIs for seamless communication between microservices and frontend systems.
- Deployed and scaled pipelines on AWS and Azure for high performance.
- Performed code reviews to ensure clean, efficient, and standards-compliant code.

PROFESSIONAL PROJECTS

- **Anti-scrape-audit module**
 - Built a Python toolkit to audit websites, detect anti-bot mechanisms (403, CAPTCHAs, soft blocks), and score scraping complexity across multiple HTTP clients.
 - Automated Playwright audits and best-config selection (headers/proxies/clients) to optimize reliability and throughput, with results auto-written to feasibility sheets.
- **Data-validation module**
 - Developed a data validation and monitoring module to automatically check data types, detect data quality issues, validate headers, and ensure compliance with project requirements.

EDUCATION

Bachelor of Computer Science and Engineering | 2018 - 2022

Vidya Academy of Science and Technology, Kerala, India

- Gained a strong foundation in data structures, algorithms, database systems, and software engineering principles through academic coursework and hands-on lab sessions.
- Participated in technical workshops and academic projects focused on Python development, IoT, and data processing.

ACHIEVEMENTS & CERTIFICATES

- **Python Web Development Expert (A+), National Council for Technology and Training (2023)**
 - Built full-stack web applications using Python, Django, HTML, CSS, and JavaScript, with database integration and form handling.
 - Worked with RESTful APIs to connect frontend and backend, while following best practices in modular coding and version control using Git.
- **Python Django-Angular Full Stack Development (A+), Luminar Technolab (2023)**
 - Developed full-stack web projects using Python (Django) backend with responsive frontends, and gained foundational Angular skills in component-based UI design.

- **Internet of Things Using Raspberry Pi (2019)**
 - Gained practical knowledge in building IoT applications using Raspberry Pi, including sensor integration, data collection, and basic automation tasks.
 - **Data Science A-Z Completion Certificate (2022)**
 - Completed a beginner-friendly course covering the basics of data science, including data preprocessing, analysis, visualization, and introductory machine learning using Python tools.
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ACADEMIC & PERSONAL PROJECTS

- **Asus Laptop Website – Full-Stack Project**
 - Built a website with user/admin login functionality and integrated email inquiry support.
GitHub: https://github.com/soorajms0707/Asus_laptop-website
Video : <https://www.linkedin.com/feed>
 - **Smart Gas Stove and LPG Monitoring System**
 - Led project planning, sensor integration, and system design to enhance kitchen safety
 - **Android-Controlled Smart Wheelchair**
 - Planned and designed system architecture for mobility assistance.
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KEY SKILLS

Languages: Python, C, C++, JavaScript, HTML, CSS

Frameworks: Django, Angular, Bootstrap, Scrapy, Playwright, jQuery

Databases: MySQL, MariaDB, MongoDB

Tools/Platforms: GitHub, PyCharm, Postman, REST API, Visual Studio, Azure, AWS, Docker, Apache Airflow

Libraries: Pandas, bs4, Selenium, Ajax

AI & Data Skills: AI-driven automation, Machine Learning (ML), Natural Language Processing (NLP), Data Validation & Quality Monitoring

Data Processing: PySpark, Apache Spark (big data processing)

OS: Windows, Linux

Soft Skills: Communication, Problem Solving, Creativity

INTERESTS

Data-driven problem solving, exploring new technologies, AI & automation, trading, reading, driving, music, and watching movies.

ADDITIONAL INFORMATION

- **Languages :** English, Malayalam
- **Willingness to Relocate:** Open to relocation within remote opportunities