SPARSH VERMA

✉@ sparshv2325@gmail.com, 🌐 Website, Github, Linkedin

SUMMARY

Data Engineer with 2+ years of experience designing automated data pipelines, cloud workflows, and AI-driven text processing systems. Skilled in Python, GCP, automation, and BI engineering with a strong track record of reducing manual effort and enhancing reporting reliability. Effective communicator with leadership ability and a growth-oriented mindset.

WORK EXPERIENCE

HCLTech, Noida, India | Software Engineer   *[Jan '24 – Present]*

- Led a team of 7 in managing, coordinating, and delivering the development and integration of a simple deterministic pipeline in AI, ensuring smooth collaboration and replacement of manual dependent.
- Optimized existing CI/CD pipelines and refactored Python automation scripts to improve performance, reduce complexity, and enhance overall runtime efficiency.
- Deployed automated **Python–BigQuery** pipelines for **Power BI** dashboard, reducing manual reporting by **35%.**
- Created a low-code solution in **PowerApps**, **PowerAutomate** and **FastAPI** to schedule and send surveys to more than 10,000 coworkers at once, using **SMTP Server**.

Blackcoffer Consulting Firm, Delhi, India | Data Science Intern   *[Aug '23 – Jan '24]*

- Built **FastAPIs** and pipelines for **Google Looker Studio** dashboard integration with **BigQuery**, improving reporting speed by **30%**.
- Designed and published interactive dashboards in **PowerBI** and **DAX**, enhancing accessibility, relevant and insightful data.
- Developed Python-based **ETL** scripts for automated data ingestion and database loading from various **APIs**.
- Automated **web scraping** workflows using **BeautifulSoup, GCP BigQuery**, for scalable data operations.

KEY PROJECTS

Client Data Automation Solutions | HCLTech

- Designed a deterministic **AI/LLM** text-scrubbing pipeline to remove *PII*, *profanity*, and *sensitive* content using hybrid rule-based + LLM logic, ensuring **99%** scrub accuracy.
- Designed **CI/CD** workflows for **Python-based Cloud Run functions** in **GCP**, cutting deployment time by **60**%.
- Delivered a GUI-based survey automation solution using **PowerApps**, **Power Automate**, and **FastAPI**, reducing manual efforts by **60%**.
- Automated a data freeze process, reducing manual work from **4 hours** to only **30 minutes**.
- Implemented **Terraform**-based disaster recovery for **GCP**, enabling *one-click* infrastructure rebuild.

Blackcoffer Consulting Firm

- **Sentiment Analysis**: Developed an automated Python script for sentiment analysis of content from **200+** scraped websites.
- Automated Data Mining, Cleaning, and Loading (ETL): Created an **ETL** tool to extract insights from big data from UK government sites.
- **Google Looker Studio Dashboards**: Developed Looker Studio dashboards displaying business information via a Python data pipeline connecting to GCP BigQuery.

CERTIFICATIONS

- **Google Generative AI Leader – Google Cloud**
- **Associate Cloud Developer – Google Cloud**
- **Aspire Learning Silver Badge – AWS Cloud Developer (HCLTech)**

TECHNICAL & INTERPERSONAL SKILLS

- **Programming & Query Languages**: Python, R, SQL, Git Bash
- **Frameworks & Libraries:** Langchain, Ollama, OpenAI, BeautifulSoup, REST API, FastAPI, Flask
- **Cloud Platforms:** Google Cloud Platform (Enterprise), ElasticSearch (Beginner), AWS (Beginner), BigQuery
- **Data Visualization & BI Tools**: Power BI, Google Looker Studio (Looker API, Dashboards)
- **Others**: Agile Methodology, Jira
- **Interpersonal Skills**: Leadership, Expert Communication, Effective Thinking & Problem Solving, Management

EDUCATION

Bachelor of Technology in Computer Science and Engineering   *[2019 - 2023]*

Galgotias College of Engineering and Technology, Greater Noida

Graduated with an overall CGPA of 7.66/10, showcasing academic performance and leadership in co-curricular activities- Editorial Club (Head), Student council (Coordinator).