

SPARSH VERMA

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SUMMARY

Data Engineer with **2.5** years of experience designing automated data pipelines, cloud workflows, and AI-integrated intelligent workflows and systems. Skilled in **Python**, **GCP**, and **Communication** with a strong track record of reducing manual effort and enhancing efficiency. Effective communicator with leadership ability and a growth-oriented mindset.

WORK EXPERIENCE

HCLTech, Noida, India | Software Engineer (Data Engineer)

[Jan 2024 – Present]

- Led a cross-functional team to design and deploy an automated data pipeline integrating Generative AI, replacing manual workflows and reducing manual dependency by 100%.
- Architected and optimized **CI/CD** pipelines, developing production-ready **Apache Airflow DAGs** that reduced data migration runtime.
- Data Pipeline Automation: Reduced manual reporting time by 35% through automated Python to BigQuery to PowerBI pipelines.
- Created an end-to-end low-code solution in **PowerApps**, **PowerAutomate** and **FastAPI** to schedule automated surveys to more than 10,000 users at once, leveraging local **SMTP Server**.

Blackcoffer Consulting Firm, Delhi, India | Data Science Intern

[Aug 2023 – Jan 2024]

- 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 data accessibility and delivering actionable insights.
- Developed Python-based **ETL/ELT** 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

SSB Forge | Personal (SSBForge.in)

Developed 0 cost end-to-end Defence preparation web-app platform-- separate premium tier encrypted content, automated daily current affairs with AI Summary, personal progress tracking.

Text Scrubbing Pipeline | HCLTech (Client)

Designed and developed a deterministic **AI/LLM** text-scrubbing pipeline to remove *PII*, *profanity*, and *sensitive* content leveraging LLM, ensuring **99%** scrub accuracy.

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 Process): 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, dbt, Apache Airflow
- **Frameworks & Libraries:** Ollama, OpenAI, BeautifulSoup, REST API, FastAPI
- **Cloud Platforms:** Google Cloud Platform, BigQuery, Cloud Run, CI/CD, Vertex AI, Pub/Sub, Terraform, Cloud Storage
- **Data Visualization & BI Tools:** Power BI, Google Looker Studio
- **Others:** Agile Methodology, Jira, Confluence, Service Desk
- **Interpersonal Skills:** Communication, Leadership, Problem Solving Mindset

EDUCATION

Bachelor of Technology in Computer Science and Engineering

[2019 - 2023]

Dr APJ Abdul Kalam Technical University, GCET, Greater Noida

Graduated in First Division, showcasing performance and leadership in academics and co-curricular activities- served as the head of Editorial Club (Head), and Coordinator in Student Council.