MONIL SOMPURA

Software Development Engineer

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PROFESSIONAL SUMMARY

Detail oriented Data Science & Automation Developer with 3 years of hands-on experience building ETL pipelines, streamlining business processes through enterprise AI & Automation solutions. Specialized in Python, BigQuery, Power BI and transformer based RAG systems delivering **15 FTE** equivalent efficiencies and **80%** time savings. Being strong individual contributor fostering continuous improvement and excellence collaborating cross-functionally to drive innovation.

TECHNICAL PROFICIENCY

Languages	Python, SQL, Rest APIs, VBScript, VBA, HTML/CSS/JavaScript
Cloud & Databases	GCP BigQuery, SQL Server, Azure DevOps
AI & ML	LLM Architecture (Decoder only), RAG, Transformer models, Faiss DB, Chroma DB
Tools & Platforms	Git, PyCharm, VS Code, Google Colab, Power BI, Automation Anywhere 360

PROFESSIONAL EXPERIENCE

Automation Expert, Amazon

July 2025 - Present

- Developed and deployed a Retrieval-Augmented Generation (RAG) Q&A tool over **750-page** confidential documents, achieving **94%** answer relevance through optimized text chunking and vector search.
- Built Python and BigQuery automation solutions for B2P invoice payments and R2R Inter-Company Reconciliation, reducing processing time by **80%** and ensuring on-time vendor payments.

Python Developer, Adani Enterprise Limited

June 2022 – July 2025

- Developed and deployed a Retrieval-Augmented Generation (RAG) Q&A tool over **750-page** confidential documents, achieving **94%** answer relevance through optimized text chunking and vector search.
- Built Python and BigQuery automation solutions for B2P invoice payments and R2R Inter-Company Reconciliation, reducing processing time by **80%** and ensuring on-time vendor payments.
- Authored best-practice guides and conducted workshops to accelerate cross-team adoption of RPA and AI solutions.
- Coordinated bug-fixing efforts across peers and interns to ensure uninterrupted delivery.
- Designed and launched more than 5 Power BI dashboards connected to BigQuery, delivering real-time KPI visibility.
- Mentored interns and juniors by providing guidance on tasks and best practices, supporting their development on SQL, version control and RPA frameworks, improving code review pass rates by **85%**.
- Developed RPA bots in Automation Anywhere 360, eliminating 2+ FTEs of repetitive reporting tasks and boosting on-time delivery by 90%.
- Created Power BI dashboards to track daily bot performance, maintaining an **87%** uptime rate.

Intern, Adani Enterprise Limited

Jan 2022 – June 2022

- Developed first web portal in Adani ABEX namely Balance Sheet Assurance for R2R Finance Department.
- Built initial web scraping RPA tool using Python & Automation Anywhere 360 for manual report automation.

KEY PROJECTS

- **Real-Time E2E Reporting Dashboard** *(Python, Google Cloud BigQuery, Power BI)*

Designed ETL workflows to ingest, transform, and serve near-real-time analytics replacing legacy RPA scripts and cutting data-refresh latency from hours to seconds.

- **BPC (Business Planning & Consolidation) Data** *(Python, Google Cloud BigQuery, Power BI)*

Automated ETL pipeline to extract and transform BPC data from BigQuery using Python. Delivered real-time Power BI dashboards for financial planning and consolidation, reducing manual effort by **95%** and accelerating decision-making during board meetings for all companies.

- **Touchless Domestic Payment Proposals** *(Python, SQL Server, Automation Anywhere A360, Power BI)*

Architected Python utilities & SQL schema to auto-generate SAP payment proposals; integrated with AA360 to run 24/7. Built a Power BI dashboard to monitor "paid vs. blocked" statuses—reallocating almost 15 FTEs from the payment processing team.

- **RAG Tool** *(Python, Llama-7B, LangChain, FAISS DB)*

Engineered a secure Q&A system over 750-page Calibrinal docs using Llama-7B & Mistral-3B. Custom text-splitting with encoder-based similarity search in FAISS vector db achieved almost sub-1500 ms query times with 85% answer precision.

- **Investor Q&A Sentiment Analyzer** *(Python, Llama-7B, Power BI, Azure DevOps)*

Created a pipeline with Llama-7B to classify investor-relation questions by sentiment & keyword; visualized trends in Power BI, enabling leadership to spot topical spikes in real time.

- **DeepFake Face-Swaping Tool** *(Python, PyTorch, OpenCV)*

Built an enhanced version of Roop-Cam for portrait-to-portrait face swapping. Integrated custom pre- and post-processing pipelines to improve swap accuracy by 25% and packaged as a pypi installable CLI tool.

- **Voice Cloning Tool** *(Python, TensorFlow, Gradio, Librosa)*

Implemented and fine-tuned JarodMica's voice-cloning repo to replicate public figures' voices (e.g., PM Modi, Hrithik Roshan). Added a Gradio web front-end for handling audio I/O.

- **Borderless Table Data Extraction** *(Python, Microsoft TATR, Surya OCR)*

Developed end-to-end solution using Microsoft's Table Transformer + Surya OCR to parse tables from 10+ different bank PDF formats. Delivered JSON-schema output under 3 seconds per file eliminating brittle regex-based scripts.

EDUCATION

MSc. in Data Science   **Sept 2022 - Dec 2024**

Chandigarh University, Distance Learning

BSc. in Information Technology   **Jun 2019 - Apr 2022**

GLS University, Ahmedabad - Gujarat

AWARDS

- Spot Recognition (2023)
- Top Performer of the Year (2023, 2024, 2025)
- Star Performer of the Month (Aug '22, Sept '22, Oct '22, Sept '24, Nov '24)

PERSONAL INFORMATION

Current Address: Bengluru, Karnataka.

Hobbies: Chess, Cars, Researching new AI Technologies.