Gunabalan G

<https://github.com/gunabalan-0411> | <https://leetcode.com/u/gunabalan0411/> | [gunabalan0411@gmail.com](mailto:gunabalan0411@gmail.com)

**Experience – 2.6 Years**

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| **HP Inc** | Bangalore, India |
| *Data Scientist 2* | Apr 2023 – Present |

* **Developed a scalable Full Stack AI** Chat Application, "**AI Analyst**," from architecture to deployment, reducing API usage costs from **$13,000** to **$235** annually.
* **Built memory-optimized** Power BI dashboards.
* **Enhanced LLM models** with faster training and highly **scalable inference** using **parallel GPUs** for specific business use cases, creating a multi-level layered insight extractor.

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| **HP Inc** | Bangalore, India |
| *Data Scientist* | Sep 2021 – Apr 2023 |

* **Automated end-to-end business intelligence** reports, from statistical analysis to PowerPoint presentations and email notifications.
* Created **Python scripts** to automate **data pipelines**, streamlining data from multiple sources to dashboards.
* **Managed the "Contact HP Support"** project on the self-service digital support website, including stakeholder meetings and coordination.

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| **HP Inc** | Bangalore, India |
| *Data Analyst Intern* | Feb 2021 – Aug 2021 |

* Developed an Employee Experience **Game proof of concept** using React and Node.
* **Analyzed digital self-serve** customer experience data.

**Projects**

***CX Copilot (AI Analyst)***

Designed a full stack chatbot application to handle inquiries about CX data by performing in-depth analysis and mapping relevant nodes. The project involved automating complex data pipelines with ETLs, fine-tuning and training open-source LLM models in Databricks, and hosting the application in a Kubernetes cluster using Docker containerization.

***Root cause finder & Alert system Automation***

An automation system that can perform data analysis, anomaly detection, and root cause identification. The script performs statistical analysis, generates PowerPoint presentations for visual summaries, and sends the reports to stakeholders.

***Python Automation for Data Pipeline Streaming (with Auto Adapting Capabilities)***

Developed a Python automation script for performing Extract, Transform, Load (ETL) operations from various sources, streamlining data to dashboards. Designed with auto-adapting capabilities to accommodate changes in data structure seamlessly.

***HMTC (Hierarchical Multilabel Text Classification)***

Implemented an HMTC model that provides deep insights in a visually comprehensible 3-dimensional tree shape, aiding stakeholders in effectively identifying root causes

**Skills**

*Python, Data Science, Machine Learning, NLP/ LLM, Azure, Apache spark Databricks, ML Ops, Dev Ops, Statistics, Automations, Agile, Problem Solving, Docker.*

**Education**

***College***: Pondicherry Engineering College: **Bachelor of Technology in Information Technology**

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| ***CGPA***: **9.3**/ 10.0 | ***HSC***: **95%** | ***SSLC:*** **98%** |