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# PROFESSIONAL-SUMMARY

**Software Engineer** by Role, **Data Scientist** by Impact with **4+** years of experience in **Data Science, Business Analytics, Software Development, and Client Engagement**, backed by 7 years in the civil construction domain. Proficient in **Python, SQL, Data Analytics, Machine Learning/Deep Learning**, and AI solutions using **Generative** and **Agentic AI** frameworks such as **Open AI Agents SDK, LangChain, LangGraph, RAG, and MCP**, supported by diverse and robust **Deployment Strategies**. Known for merging strong technical acumen with deep domain knowledge to build intelligent systems and uncover actionable insights that drive operational efficiency, strategic decision-making, and measurable business outcomes.

# CORE SKILLS

* **Programming & Data Science:** Python (Jupyter, Colab, PyCharm, VS Code), SQL/MS SQL (MySQL

Workbench, SSMS), Cursor

* **Generative & Agentic AI:** LLM, Open AI Agents SDK, LangChain, LangSmith, LCEL, LangGraph, LangGraph, RAG, LLM Fine-tuning, Crew AI, MCP, Vector DB, Guardrails, LLMOps
* **Data Manipulation & Analysis:** Pandas, NumPy, scikit-learn, MS-Excel, SQL, EDA
* **Data Visualization & Storytelling:** Matplotlib, Seaborn, Plotly, Power BI
* **Machine Learning & Deep Learning:** Ensemble, TensorFlow, Keras, PyTorch
* **Data Wrangling & Preprocessing:** Data Cleaning, Preprocessing
* **Model Deployment:** Flask, FastAPI, Docker, Kubernetes, AWS, GCP, Hugging Face Spaces, Streamlit Cloud, Render, Jenkins, Circle CI, Prometheus, Grafana, SonarQube, Postman, Insomnia
* **Applied AI:** NLP, Computer Vision, Time Series
* **UI & Web Development:** Streamlit, Gradio, HTML, CSS, Bootstrap, JavaScript
* **Structured Thinking & Modular Coding:** Frameworks; Organised, Segmented, Reusable Code
* **Emotional Intelligence & Soft Skills:** Effective communication, teamwork
* **Prompt Engineering:** Crafting precise prompts for AI models
* **Project Management & Tools:** Jira, Confluence, MS Teams, Miro
* **Code Repositories:** GitHub, GitLab, DagsHub

# EDUCATION

|  |  |  |
| --- | --- | --- |
| **Degree** | **Institute/School** | **Percentage/CGPA** |
| P.G.P AI-ML | The University of Texas, Austin (McCombs) | 97.18% / 4.21 |
| B.E. (CSE) | AMCEC (Visvesvaraya Technological University) | 64% |
| Class XII | Delhi Public School | 80% |
| Class X | Delhi Public School | 86% |

# EXPERIENCE

## Software Engineer

### Critical Facility Digital Pvt Ltd, Bengaluru | October 2021 – Present

* Prototyped a GenAI LLM–RAG solution for multiple IoT-based products in Support Services, demonstrating a 15–25% potential cost reduction for each by streamlining workflows and reducing manual intervention.
* Delivered the development of time series models to accurately forecast energy demand in a residential ecosystem. Reduced the energy consumption via clustering energy zones and zone-based recommendations based on inferences on usage by 17%. Strategized analytics and ML-based strategies for business and revenue model optimization for the ecosystem providing actionable insights and enabling data-driven forecasting of future revenue streams.
* Developed ML-based OCR solutions to automate data entry (improving efficiency by 12%) and ISO/CMMI documentation, accelerating delivery schedules and reducing costs by replacing paid software.
* Served as stakeholder interface, translating business requirements into actionable documentation for cross-functional internal and external teams, accelerating project delivery and team alignment.
* Partnered with the backend database team by creating and optimizing stored procedures for a residential ecosystem, including populating databases for UAT purposes, thereby aligning with the client-defined success metrics.
* Drove business feasibility insights for multiple sustainable and IOT technologies at HQ (Critical Facility Group, Singapore) in the ASEAN region, helping align business strategy with environmental goals.
* Strengthened QA before live deployment by collaborating with cross-functional teams, conducting Root Cause Analysis, and reducing errors by 10–20% each sprint.
* Core team member for CMMI Level 3 and ISO audits (27001, 9001, 14001, 45001), acted as an internal auditor and contributed to NPD policy and strategic standards at HQ, ensuring compliance and enhancing process efficiency.
* Synergized on cost estimation for multiple full-stack IoT projects, optimizing project budgets and ensuring cost-effective solutions aligned with business goals.

## Machine Learning Intern

### Critical Facility Digital Pvt Ltd, Bengaluru | April 2021 – October 2021

* Generated synthetic data for energy, security and day-to-day activity use-cases in a residential ecosystem to simulate real-world environments and enhance model training.
* Conducted Exploratory Data Analysis (EDA) and performed data cleaning and pre-processing on datasets, identifying key trends for further modelling.
* Collaborated with senior stakeholders, including a Senior Tableau Developer, to deliver insightful data visualizations using Matplotlib, Seaborn, and Plotly for an initial comprehensive ecosystem dashboard.
* Developed a web application using the Django framework for a side project, showcasing the ability to balance multiple deliverables.

# PROJECTS

Diverse projects in Generative AI, Agentic AI, Data Analysis, ML, DL, Recommendation systems, Web Scraping, and Time Series. For detailed descriptions, visit [[Portfolio].](https://gouranga-gh.github.io/my-portfolio/)

# RECENT ACHIEVEMENTS

* Awarded "Excellent Contributor" at Critical Facility Digital Pvt Ltd.
* Completed certifications in **Generative AI and Agentic AI**, and actively deepening expertise through advanced experimentation with cutting-edge tools and architectures to stay at the forefront of innovation.

# EXTRACURRICULAR ACTIVITIES

* AI Blogger on Medium & LinkedIn, curating insightful content and building community-driven awareness as a novice tech influencer on Instagram.