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# PROFESSIONAL-SUMMARY

**Data Scientist** with **4+** years of experience in **Data Science, Business Analytics, Software Development, and Client Engagement**, backed by **7** years in the Civil Construction. Proficient in **Python, SQL, Data Analytics, Machine Learning/Deep Learning**, and AI based solutions using **Generative** and **Agentic AI** frameworks such as **Open AI Agents SDK, LangChain, LlamaIndex, LangGraph, RAG, and MCP**, supported by diverse and robust **Deployment Strategies**. Recognized for blending technical expertise with diverse domain experience—from civil infrastructure to data science—to build intelligent systems that drive efficiency, informed decisions, and **measurable impact**.

# CORE SKILLS

* **Programming:** Python, SQL, GitHub, GitLab, DagsHub, Cursor, Prompt Engineering
* **Generative & Agentic AI:** LLM, SLM, Open AI Agents SDK, LangChain, LangSmith, LlamaIndex, LCEL, LangGraph, RAG, LLM Fine-tuning, Crew AI, MCP, Vector DB, Guardrails, LLMOps
* **Data Science & Analytics:** Pandas, NumPy, scikit-learn, MS-Excel, SQL, Data Wrangling & Preprocessing, EDA, Matplotlib, Seaborn, Plotly, Power BI, Machine Learning, Deep Learning **(**TensorFlow, Keras, PyTorch), Ensemble, Transfer Learning, Statistical Analysis, Hypothesis Testing
* **Deployment & Cloud:** Flask, FastAPI, Docker, Kubernetes, Hugging Face Spaces, Streamlit Cloud, Render, Jenkins, Circle CI, Prometheus, Grafana, SonarQube, Postman, Insomnia, AWS (Bedrock, API Gateway, CloudWatch, Lambda, S3, IAM, SageMaker, EKS, ECS, ECR, EC2, Elastic Beanstalk, Fargate), GCP (GAR, GKE, GCS, Cloud SQL, Service Account, VM, Firewall)
* **Applied AI:** NLP, Computer Vision, Time Series
* **UI & Web Development:** Streamlit, Gradio, HTML, CSS, Bootstrap, JavaScript
* **Soft Skills:** Emotional Intelligence,Structured Thinking,Data Storytelling
* **Project Management & Tools:** Jira, Confluence, MS Teams, Miro

# EDUCATION

* **P.G.P in Artificial Intelligence & Machine Learning**, The University of Texas at Austin (McCombs School of Business) — 97.18%
* **Bachelor of Engineering in Computer Science**, AMCEC, Visvesvaraya Technological University — 64%
* **Class XII**, Delhi Public School — 80%
* **Class X**, Delhi Public School — 86%

# EXPERIENCE

## Data Scientist

### Critical Facility Digital Pvt Ltd, Bengaluru | October 2021 – July 2025

* Prototyped a GenAI LLM–RAG solution for multiple IoT-based products in Support Services, demonstrating a **15–25%** potential cost reduction, propelling customer engagement and minimizing 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 diverse condominiums in Singapore 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, impacting accelerated and efficient 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, boosting project delivery and team alignment.
* Partnered with the backend database team by creating and optimizing stored procedures for a residential ecosystem project, including populating databases for UAT, thereby aligning with the client-defined success metrics.
* Drove business feasibility insights for sustainable and IOT technologies at HQ (Critical Facility Group, Singapore) in the ASEAN region, helping align business strategy with Paris Agreement (UNFCCC).
* 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 based projects, optimizing project budgets upto **25%.**
* Awarded "Excellent Contributor" at Critical Facility Digital Pvt Ltd for driving cross-domain impact through versatile skills and strategic execution.

## Machine Learning Intern

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

* Simulated real-world environments by generating synthetic data for energy, security, and daily activity use-cases, enhancing model training accuracy and demonstrating on Tableau.
* Improved available dataset quality through EDA, cleaning, and preprocessing, uncovering key trends that informed further modeling.
* Delivered a comprehensive ecosystem dashboard with senior stakeholders by creating visualizations (Matplotlib, Seaborn, Plotly) and balancing deliverables through a Django web app side project.

## Operations Manager – Civil Construction

## *Self-employed* | *Feb 2013 – Jan 2020*

* Delivered underground water and sewage pipeline projects for government and private clients by coordinating stakeholders, monitoring budgets, and ensuring compliance, while optimizing procurement workflows to cut costs and secure timely, regulation-compliant delivery.

# 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/)

# EXTRACURRICULAR ACTIVITIES

* Published 70+ articles on Medium & LinkedIn with consistent engagement metrics and created 30+ informative Instagram posts to build community-driven awareness in AI and technology.