GOKUL G J

+91-8080985496 | Linkedin | Scaler | gokulgj5004@gmail.com

SKILLS

- Python, SQL, Excel, Python Libraries, scikit-learn, Natural Language Processing (NLP), Generative AI, Deep Learning, EDA, Statistical Modelling, GitHub, Matplotlib, NumPy, Pandas

EXPERIENCE

Data Analyst Feb 2024 - Present

Indium Technology (ext-Uber)

- Built and maintained the Monthly Business Review (MBR) dashboard with key KPIs and visualizations for senior leadership, along with custom dashboards to support evolving team needs.
- Partnered with product, operations, and engineering teams to develop scalable data solutions, automate pipelines (Python, SQL), and streamline reporting—reducing manual effort by over 50%.
- Executed high-impact ad hoc analyses to support product launches, process improvements, and stakeholder queries, influencing strategic outcomes.
- Ensured data quality and pipeline reliability through validation checks, automated alerts, and well-documented ETL processes.
- Led analysis of Jira ticket data to uncover trends, pain points, and bottlenecks, driving improvements in Uber for Business (U4B) operational efficiency and decision-making.
- Identified reward hacking patterns in Anthropic's PR Writer model and proposed improvements to the reward function; contributed to targeted and conditional RLHF projects by analyzing outputs and crafting task-aligned rewrites. Also designed and executed side-by-side (SxS) evaluation pipelines and led math reasoning assessments, generating high-quality human preference data and identifying model failure modes across complex tasks.
- Led evaluation for CokeEval: authored coding prompts and problem statements, implemented Docker-based tests, and developed gold-standard solutions for execution-based evaluation. Collaborated cross-functionally to define evaluation guidelines, align annotation efforts, and improve dataset quality for RLHF pipelines.

Data Engineer (Data Scientist) Apr 2023 - Feb 2024

Sabic-HPP (Deputed from Randstad)

- Engineered a model for predicting multi-point properties, with a specific focus on Tensile and Creep predictions. This included fitting multi-point property data into an equation, extracting coefficients, and utilizing them to predict and reconstruct the original curve. Accomplished remarkable R-squared values ranging from 0.80 to 0.98.
- Developed a machine learning model to generate images featuring diverse speckle distributions. Leveraged existing plaque images as a foundation and incorporated corresponding speckle compositions. Fine-tuned a diffusion model to craft images based on specific speckle compositions, providing product designers with a tool to visualize material aesthetics without the necessity for expensive and time-consuming molding of speckle plaques.
- Executed a Proof of Concept for a recommender system for the SABIC material finder, streamlining material selection processes for product designers and enhancing overall efficiency.

Analyst (Senior Planning Engineer) May 2022 - Nov 2023

Colliers

- Compiled, examined, and organized data to quantify and monitor the progress of a Rs. 200 crore real estate project.
- Analyzed the current project status, executed catch-up plans as necessary, and oversaw ongoing project tracking to ensure alignment with established goals.
- Prepared comprehensive reports, presentations, and contractual letters to communicate project updates, milestones, and contractual information effectively.

Analyst (Senior Planning Engineer) Sep 2020 - May 2022

HCC Ltd.

- Formulated the budget of Rs. 700 cr for the Parwan Gravity Dam Project, meticulously preparing financial plans for both FY 21-22 and FY 22-23.
- Strategically planned project activities and allocated resources using advanced Excel, ensuring efficient utilization and optimization of available assets.
- Compiled detailed Daily, Monthly, and Quarterly Project Status reports, capturing the ongoing progress and developments. Recorded daily advancements in the SAP/ERP software for accurate tracking.
- Facilitated seamless coordination and liaison with project stakeholders, fostering effective communication and collaboration throughout the project lifecycle.

PROJECTS

Hybrid Agentic RAG Trading System | GenAI & Algorithmic Trading | Tools used: LangGraph, OpenAI GPT-4, Llama 3, ChromaDB, Streamlit

https://github.com/gokul-gj/agentic-rag-trader

- Developed an autonomous trading system that combines Agentic AI with Retrieval-Augmented Generation (RAG) to execute sigma-based option selling strategies (Strangles & Straddles) on the Nifty 50.
- Orchestrated a multi-agent Directed Acyclic Graph (DAG) using LangGraph, coordinating specialized agents for real-time market research, strategy selection, execution, and risk management.
- Engineered a "Hybrid Multi-Model" architecture utilizing GPT-4 for precision logic and Llama 3 for high-speed synthesis, reducing model bias and improving decision accuracy.
- Implemented a RAG-based Strategist that retrieves dynamic trading rules from PDF documents via ChromaDB, eliminating hardcoded logic and enabling seamless strategy updates.

Forecasting of Views to webpages | Time Series | Tools used: ARIMA Models and, Facebook Prophet

https://github.com/gokul-gj/Time_Series

- Accomplished the forecasting of page views, enabling precise ad placement optimization for clients, utilizing data from 145k Wikipedia pages and their daily view counts.
- Implemented Facebook's Prophet module for accurate predictions, achieving an exceptional MAPE value of 0.067, showcasing superior forecasting performance.

Supply chain image classification: TF-CV, OpenCV, Transfer-Learning

https://github.com/gokul-gj/Image_Classification

- Developed robust classifiers to distinguish between images of different vegetables and accurately label images without vegetables as noise.
- Engineered the VGG16 architecture from scratch and compared it with fine-tuned pre-trained VGG16 and ResNet50V2 models trained on ImageNet.

- Achieved better accuracy with the pre-trained models (88% and 87%) compared to the initial model's 30%.

ACHIEVEMENTS

Publication: S. Malsane, G. Gokul, M. Merin, D. Nithin, and S. Babu. Management of high-volume clashes during clash detection. Springer.

EDUCATION

WOOLF Insitute of Higher Studies 2024
MS in Computer Science: Artificial Intelligence and Machine Learning

NICMAR, Pune 2020
PGP in Advanced Construction Management | 8.58 CGPA

Rajagiri school of engineering and technology 2018
BE/B.Tech/BS | 7.75 CGPA