NIKHIL SURYAWANSHI

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EDUCATION

MS in Data Science - Rochester Institute of Technology, New York [3.77/4 CGPA] 08/2022 - 05/2025
Graduate Teaching Assistant - Information Retrieval and Textual Mining 01/2025 - 05/2025
Undergraduate Teaching Assistant - Software Engineering Freshman Seminar 08/2023 - 12/2023
B. Eng. in Computer Engineering - Bharati Vidyapeeth College of Engineering, India [8.54/10 CGPA] 08/2018 - 07/2022

EXPERIENCE

Data Analyst Intern - Coherent Corp - Saxonburg, Pennsylvania 01/2024 - 05/2024
- Streamlined the initiative tracking system, Amplify, by integrating **data governance and hygiene** processes. Visualized improvements using Power BI dashboards and implemented **RBAC rules** to automate reporting workflows, ensuring user-level visibility and compliance. These efforts led to a **20% improvement in data accuracy and reporting** consistency.
- Administered the Amplify system, managing user access, automating variance analysis, and implementing **anomaly detection** to enhance **data integrity** and **reliability**. Delivered insights to department managers, supporting a **$700M cost-saving initiative**.
- Conducted post-acquisition analysis of **EPS, GAAP, revenue**, and **COGS** trends; identified financial gaps and recommended **$150M** in **budget optimizations and cost reductions**. Presented strategic insights to the **C-Suite**.

Data Analyst Intern - SankalpSoft Solutions - Nashik, India 01/2022 - 06/2022
- Consulted **20+ clients** to assess business needs and **design data architectures**, enhancing operational efficiency. Advanced **ETL/ELT pipeline optimization** and data flow analysis to improve **information retrieval** and **system integration**.
- Refined **PL/SQL procedures, reducing data retrieval time by 35%,** which improved database performance**,** streamlined reporting, and increased user satisfaction through faster, more reliable data access for decision making**.**
- Engineered and deployed an **AWS QuickSight** dashboard to scale analytics visibility and enable real-time KPI tracking. Automated reporting workflows, **saving over 2 hours weekly** in project status reviews, while implementing privileged access.

Data Analyst Intern - Mass Technologies - Pune, India 07/2021 - 10/2021
- Developed a Python-based University Recommendation System, implementing **machine learning models (KNN, Decision Trees)** to personalize recommendations, **reducing selection time by 20%** and improving user experience.
- Optimized ETL pipelines using batch processing, parallelism, and caching, **accelerating query execution by 11%** and tuning **model accuracy by 8%** through Feature Weighting techniques.
- Integrated an interactive web interface using **Flask and REST APIs**, enabling seamless user interactions and real-time university comparisons, improving decision-making efficiency.

SKILLS

- **Techniques:** Statistical Analysis, Data Visualization, Predictive Modeling, A/B Testing, Data Mining, Data Governance, Agile
- **Programming Languages:** Python, R, JavaScript, C++, Java
- **Database:** PostgreSQL, MySQL, MongoDB, Hadoop, ETL/ELT, Snowflake, DBT, Spark, Airflow, Neo4j
- **Cloud:** AWS (Glue, Athena, Redshift, S3, Lambda), Azure, GCP
- **BI Tools**: Tableau, Power BI, Looker, Google Analytics, Microsoft Excel (Power Query, VBA), Dataverse, DAX
- **Tools & Platform:** Git, CI/CD, Docker, Kafka

PROJECTS

SmartQuery AI: Talk to your Data - *Coherent Corp. Mini Project* (Python, API, LangChain, RAG)
- Deployed an AI-driven analytics platform with **RAG pipelines** and **AI agents** for real-time data exploration; **reduced manual prep by 60%, accelerated insights 3x**, and user interaction through automated imputation, trend analysis, and interactive filters.

Grocery Inflation Tracker – (Python, AWS S3, Glue, Athena, QuickSight)
- Implemented a cloud pipeline to ingest and process daily **grocery pricing data** from online retailers; automated ETL with AWS Glue, designed Athena queries for inflation trends, and enabled **real-time tracking of 100+ SKUs** through QuickSight dashboards.

Machine Learning for Code Quality Improvement – (Python, Java)
- Performed analysis of developer intent from commit messages using **NLP** techniques. Applied supervised and clustering models to assess static software metric changes, achieving a **15% accuracy gain** in predicting quality shifts across **54 Java projects**.

Analyzing LLMs' Stances on Political Disputes - *Capstone Project*
- Built a **multi-layered framework** to analyze political bias in LLMs across 90 identity-framed prompts, introducing novel methods for stance classification, lexical fingerprinting, and cross-LLM validation. Evaluated six models (**GPT-3.5, GPT-4o, Llama 2/3, Mistral, Gemma 2),** uncovering sycophantic behavior, identity-driven partisanship, and proposed methods for fair AI.