

# Syed Faquaruddin Quadri | Data Analyst

New York City, NY

475-655-6862 | [syedfaquaruddinquadri@gmail.com](mailto:syedfaquaruddinquadri@gmail.com) | [linkedin.com/in/syed-faquar-quadri/](https://www.linkedin.com/in/syed-faquar-quadri/) | [github.com/SyedFaquar](https://github.com/SyedFaquar)

## TECHNICAL SKILLS

**Programming Languages:** SQL, Python, R, MATLAB.

**Web Development & Databases:** HTML, CSS, Rest APIs, Flask, Django, Postgres, NoSQL Databases.

**Big Data and Cloud Architecture:** Hadoop, PySpark, GCP App Engine, AWS Cloud.

**Machine Learning:** Neural Networks, Keras, PyTorch, TensorFlow, Recommendation Systems, Data Mining, Forecasting, A/B testing.

**Data Engineering Skills:** CI/CD, Data Management, Database Modeling, Data Warehousing, ETL, Snowflake, Terraform.

**Tools and libraries:** Version Control System: Git, Kubernetes, Docker, Flink, Kafka, Hive, Salesforce, dbt.

**Professional Skills:** Innovative, Strong Analytical Skills, Ability to work Independently, Effective Communication Skills.

## WORK EXPERIENCE

### CUNY | Data Analyst

July 2024 – Present

- Developed a centralized **Tableau** dashboard, providing real-time access to the administrative staff, with a **99% uptime** for seamless usability, collaboration and communication.
- Ensured real-time **data synchronization** using **Python** and **SQL**, improving workflow **efficiency by 30%**.
- Develop reports and visualizations, tracking program performance metrics such as student engagement, academic progress, and completion rates, with a focus on improving overall program success by at least **15% annually**.
- Implemented user-friendly interfaces using **Power BI and Excel**, and developed and implemented data quality control processes to ensure accuracy, consistency, and reliability of data.

### PayPal | Data Engineering Analyst

May 2023 – July 2024

- Monitored and maintained over 30+ Airflow DAGs, proactively reducing processing delays by **15%**, improving data pipeline efficiency and ensuring timely report generation.
- Designed and integrated key improvements into the compensation system using **SQL and Python**, tracking **10+ KPIs**, leading to a **20% improvement** in budgeting accuracy and financial banking forecasting, and debugging SQL queries.
- Spearheaded critical SQL privilege audits and access control enhancements, reducing data privacy and security vulnerabilities by **30%**, ensuring compliance with PayPal's data requirements and data governance standards.
- Developed and deployed Python-based ETL scripts that **automated 70%** of manual data workflows, improving efficiency, scalability, and reducing processing errors by **25%**.
- Built an interactive **Tableau dashboard** that provided real-time analytics across **5+ key Business Requirements**, accelerating leadership decision-making by **40%** and improving visibility into performance trends.

## TECHNICAL PROJECT EXPERIENCE

### WeatherScope: Real-time Weather Analytics Platform

- Architect and Implemented a real-time weather monitoring system using **Azure Event Hub**, processing **100K+ data points per hour**. Integrated **Azure Databricks** for data transformation and **Kusto DB** for storage, achieving **99.9% data accuracy**.
- Developed and automated a real-time weather alert pipeline using **Azure Data Activator**. Implemented **Azure Key Vault** for secure API keys management and API integration.
- Engineered a **real-time** weather data visualization dashboard using **Grafana** and automated infrastructure with **Terraform**, managing **5+ Azure resources** and **20+ weather metrics**, resulting in **85% faster deployment** time with 100% infrastructure consistency.

### Spotify Monetization Opportunity Detector

- Engineered podcast monetization system using Spotify's API and **Random Forest Regressor** to predict optimal ad placements, achieving **90% accuracy** in identifying high-engagement spots across **8,900+ episodes**, reducing listener **drop-off rate by 30%**.
- Designed and deployed a scalable data pipeline to extract **Spotify** podcast data; implemented feature engineering on 7 key metrics (e.g., duration, time, language), improving model performance with an **R<sup>2</sup> score: 0.85**.
- Developed an interactive **Streamlit dashboard** enabling real-time podcast performance monitoring, boosting **revenue by 25%** through strategic ad placement and achieving **95% test coverage** with automated testing.

### Big Data Analytics of Food Insecurity

- Conducted an in-depth analysis of the food insecurity problem in NYC, utilizing GCP dataproc to run Apache Spark MapReduce-based logic to achieve the quick and efficient parsing of 10 GB large data sets (**9.2 million rows**) in less than **2.5 minutes**.
- Leveraged **Apache Spark Resilient Distributed Datasets (RDD)** and DataFrame implementations to construct scalable logic for execution on Google Cloud Dataproc's Apache Hadoop YARN framework.

### Foogole - Search Engine

- Designed and developed a search engine aggregator that compiles and filters results from 4 major search engines (Google, Bing, Yahoo, DuckDuckGo), performs data transformation like reducing ads and duplicates by **100%**, and providing an unbiased search experience.
- Enhanced search relevance with word frequency algorithms using Natural Language Processing, boosting result **accuracy by 25%**
- Leveraged Python (**Asyncio, Aiohttp, BeautifulSoup, NLTK**), **MySQL**, and **Flask** to build a scalable backend, integrating a MySQL database capable of storing and querying over **100 search results** with an average query time of under **2 seconds**.

## EDUCATION

The City College of New York

Masters in Data Science & Engineering

Aug 2022 – May 2024