Yash B Agarwal

Data Engineer | Power BI Data Analyst Associate Certified | Databricks Data Engineer Associate Certified
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Professional Summary

Highly skilled **Data Engineer** with **3+ years of experience** in data migration, data visualization, and business application development. Proficient in leveraging tools like **Power BI, Power Apps, SQL Server, Snowflake, Python, and AI/ML frameworks** to deliver impactful solutions. Adept at developing scalable data pipelines, creating analytical reports, and managing database systems. Proven ability to collaborate across teams, solve complex problems, and deliver results under tight deadlines. Passionate about integrating **AI/ML techniques** into data-driven workflows to drive innovation and efficiency.

Technical Skills

Primary Skills

- **Power BI** : Desktop, Service, Report Builder

- **Power Apps** : Canvas App Development

- **Power Automate** : Workflow Automation

- **SQL Server** : SSMS, Database Management

Secondary Skills

- **Programming Languages** : Python, SQL

- **Tools & Platforms** : Excel, Linux, Tableau, MATLAB, ROS/Gazebo

- **Cloud Platforms** : Snowflake, Oracle Fusion, Microsoft Fabric, Azure, AWS, GCP

- **ETL Tools** : Matillion, Airflow, Databricks

AI/ML Expertise

- Machine Learning Algorithms (K-Maps, RandomForest, Decision Trees)

- Deep Learning Models (Hierarchical Learning, CNNs)

- Path Planning & Optimization (RRT, Levy Flight Sampling)

- Libraries: PyTorch, scikit-learn, OpenCV, CUDA

Experience

Data Engineer
KPI Partners | Jan 2022 – Present | Bengaluru

- Designed and implemented **data pipelines** for seamless migration and transformation using **Snowflake, SQL Server, and Python** .

- Developed **interactive dashboards and reports** in Power BI, enabling actionable insights for business stakeholders.

- Created **custom business applications** using Power Apps with role-based security models for operational efficiency.

- Automated workflows using **Power Automate** , reducing manual intervention by **30%** .

- Maintained SQL databases, ensuring **data integrity, optimization, and compliance** with organizational standards.

Projects

Project Name: Snowflake Metadata Management System Using PowerApps & Power BI

Role: Snowflake Developer, Power Apps Developer, Power BI Report Developer
Team Size: 5 Members | **Duration:** May 2024 – Aug 2024
Technologies/Tools Used: Snowflake, Power Apps, Power BI, Python, SQL Server

- Designed a **metadata management system** in Snowflake to track schema changes and usage trends over time.

- Built a **Power Apps interface** for administrators to manage Snowflake resources, including tables, views, and user roles.

- Integrated metadata history into **Power BI reports** , enabling stakeholders to visualize schema evolution and query performance metrics.

- Automated metadata extraction and storage using **Python scripts** , ensuring real-time updates and accuracy.

- Implemented **role-based access controls** within Power Apps to ensure secure interactions with Snowflake resources.

Project Name: Autonomous Path Planning Algorithm for UAVs

Role: Data Engineer, Algorithm Developer
Team Size: 4 Members | **Duration:** Oct 2023 – Dec 2023
Technologies/Tools Used: Python, MATLAB, ROS/Gazebo, Snowflake, Power BI

- Adapted a novel **RRT-inspired path planning algorithm** for UAV navigation in constrained environments.

- Integrated **Snowflake** as the backend database to store UAV telemetry data and optimize route planning decisions.

- Visualized UAV trajectories and performance metrics using **Power BI dashboards** , enabling real-time monitoring.

- Optimized the algorithm for narrow passages using **Levy Flight sampling techniques** , improving efficiency by **25%** .

- Conducted simulations in **ROS/Gazebo** to validate the algorithm's accuracy and scalability.

Project Name: Data Modernization Project Using Fabric & Power BI

Role: Fabric Developer, Power BI Report Developer
Team Size: 4 Members | **Duration:** Mar 2024 – Apr 2024
Technologies/Tools Used: Microsoft Fabric, Power BI Desktop, Power BI Service

- Migrated data from on-premise warehouses to **OneLake** in Microsoft Fabric, ensuring minimal downtime.

- Created **semantic models** in Power BI to generate business-ready analytical reports.

- Automated ETL processes using **Fabric data flows** , reducing manual effort by **40%** .

- Delivered comprehensive documentation and conducted training sessions for end-users.

Project Name: Intrusion Detection Using Deep Learning

Role: Testing Big Data Techniques
Team Size: Solo | **Duration:** [Add Duration]
Technologies/Tools Used: Python

- Tested various machine learning algorithms, including **K-Maps, RandomForest, and Decision Trees** .

- Developed a **hierarchical deep learning model** for intrusion detection using Python libraries.

- Analyzed efficiency metrics to determine optimal methods for anomaly detection.

Education

Bachelor of Engineering (ECE)
Acharya Institute of Technology, Bengaluru | 2021 | 80%

Higher Secondary School (ISC)
Prerana PU College, Bengaluru | 2017 | 90%

High School (ICSE)
Shri Ramakrishna Vidyashala, Mysuru | 2015 | 98.4%

Certifications

- **Power BI Data Analyst Associate Certified**

- **Microsoft Fabric Data Analytics Associate (DP-600)**

- **Databricks Data Engineer Associate Certified**

- Internship Certificate in RPA using UI-Path and Python

Workshops & Training

- Completed workshop on **"RPA"** at Zappy.ai.

- Attended workshops on **Power Apps and Power BI** (Dataquest & KPI Partners).

- Trained in **.Net development** at KPI Partners.

- Participated in **"Catch me Young Program"** at Infosys.

Personal Skills

- Quick Learning Ability

- Problem Solving & Critical Thinking

- Creative Thinking & Time Management

- Active Collaboration & Communication

Languages

- English

- Hindi

- Kannada

- Marathi (Not Fluent)

- Learning French

Personal Interests

- Staying updated on emerging technologies and industry trends.

- Reading books on data science, AI/ML, and artificial intelligence.

- Playing sports like Chess, Cricket, and Football.

- Experimenting with new software tools and frameworks.

Additional Highlights

- **AI/ML Integration** : Skilled in applying AI/ML techniques to enhance data-driven decision-making and automation.

- **Problem-Solving Approach** : Proven track record of solving complex challenges through innovative solutions.

- **Continuous Learner** : Actively pursuing certifications and experimenting with cutting-edge technologies.