AKRAM HUSSAIN

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🔗 **LinkedIn**   🔗 **Github**   🔗 **Kaggle**

Professional Summary

Results-driven **Data Analyst with 2+ years of experience in healthcare analytics and product reliability for clients like Honeywell and Envision Healthcare.** Skilled in Python, SQL, Power BI, and Tableau for automation, predictive modeling, and dashboarding. Strong in reliability metrics, RCM optimization, and delivering data-driven insights that drive business outcomes.

- **Python** (Pandas, NumPy, Matplotlib, Seaborn) **,SQL** (Advanced Querying, ETL, Data Cleaning)
- **Power BI** (Interactive Dashboards, DAX, KPI Reporting)
- **Tableau** (Claims Dashboards, Visual Storytelling)
- Healthcare Analytics (RCM, Claim Denials, HIPAA Compliance)
- Reliability Engineering (MTBF, Weibull, Warranty Analysis)
- **Machine Learning** (Regression, Forecasting, Failure Prediction)
- Data Automation (Python Scripts, SQL Pipelines, RPA, Power Query)
- Cross-functional Collaboration (Engineering, Billing, QA, Clinical Teams)
- Root Cause & Risk Analysis (Failure Modes, Revenue Leakage)

EXPERIENCE

🔧 Product Reliability Engineer

Cyient Ltd (Client: Honeywell) — *2023 – Present*

- Utilized **Python** (Pandas, NumPy, matplotlib) and **SQL** to automate data extraction, preprocessing, and analysis of large-scale product reliability datasets from global repair centers.
- Performed advanced **reliability analysis** including **MTBF**, **Weibull distribution modeling**, and **Pareto analysis** using both **Python** and **Power BI** to identify failure patterns and cost drivers.
- Designed and deployed **interactive dashboards** in **Power BI** and **Python (matplotlib/seaborn)** for real-time monitoring of top failure categories, repair turnaround, and lifecycle performance.

- Applied **machine learning algorithms** such as regression and time series forecasting to predict component failures, optimize maintenance cycles, and reduce warranty costs.
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- Collaborated with cross-functional teams including engineering, quality assurance, and manufacturing to translate data insights into **actionable product design improvements**.

- Contributed to **data reliability modeling**, **predictive maintenance**, and **failure risk scoring**, supporting decision-making across product lifecycle management.

- Achieved a **7/7 customer satisfaction rating** from Honeywell for delivering impactful analytics, automation, and continuous improvement strategies.

📊 Associate – Data Analyst

WNS Global Services (Client: Envision Healthcare) — *2022 – 2023*

- Extracted and transformed large-scale **healthcare claims and financial data** across multiple US states using advanced **SQL queries**, **Excel**, and **Python scripts**, supporting data integrity and compliance.

- Utilized **Tableau** to design interactive dashboards for tracking **claim denials**, **copay/co-insurance trends**, **reimbursement patterns**, and **aging reports**, enhancing transparency and stakeholder reporting.

- Developed SQL-based data pipelines and scheduled automation processes to streamline monthly reporting cycles and reduce manual work by 40%.

- Conducted in-depth data analysis to identify **revenue leakage**, billing errors, and claim rejection causes, contributing to **cost optimization** and **revenue cycle improvements**.

- Collaborated with RPA teams to convert bulk claim files (PDF to structured formats), and cleaned data using SQL and Excel Power Query.

- Delivered insights that improved **billing compliance**, reduced **claim rejections**, and enhanced **payer-provider alignment**, while ensuring **HIPAA data security standards** were met.

- Supported continuous improvement efforts by tracking performance KPIs and communicating findings to clinical and financial teams for decision-making.

📂 **Project: Insurance Claim Management – Envision Healthcare** 🔗[**Case Study Link**](#)

- Designed and implemented an end-to-end healthcare claim analytics solution using **Python**, **SQL**, and **Tableau**. Processed and transformed multi-state claim data, automated ETL workflows, and built interactive dashboards to track key RCM metrics such as **Billing vs Collection**, **Claim Aging**, **Denial Trends**, and **Insurance Type Performance**. Delivered actionable insights that reduced rejections, enhanced coding compliance, and supported strategic decision-making for billing and operations teams.

📂 **Project: Field Failure Analysis – Honeywell OEM**   🔗 [**Case Study Link**](#)

- Executed a comprehensive field failure analytics initiative using **Python (Pandas, Seaborn)** and **Power BI** to identify root causes of component breakdowns in global aftermarket operations. Built dynamic dashboards to track **failure modes**, **repair cost trends**, **warranty impact**, and **predictive failure patterns** across product categories. Insights from the analysis enabled the engineering and manufacturing teams to drive **data-backed design improvements**, implement **preventive maintenance**, and reduce warranty-related costs.

📊 **Healthcare Analytics Dashboard – Power BI**   🔗[**View Dashboard Demo**](#)

EDUCATION

Bachelor of Science   **2022**
 Singhania University — *8.4 CGPA*

Masters in Data Analytics / Data Science Program

Top Mentors E-Learning Platform   **2025**

CERTIFICATIONS

Data Analytics using Pandas – **Udemy** , SQL - **Youtube Learning**, Power BI - **Alison Learning**

Lean Six Sigma(Yellow Belt) from **Alison Learning**