

# Rana Muhammad Hamza

+923147214134 • hamzaazhar17@outlook.com • linkedin.com/in/rana-muhammad-hamza

Senior Data Scientist & Digital Transformation Specialist with **5+ years' experience** in AI/ML, Predictive Analytics, and Business Intelligence. Proven record of delivering measurable impact: **cutting product lead-times by 3–4 days, reducing HR workload by 70%, and lowering machine downtime by 15%**. Skilled in **multi-database integration, Generative AI, and real-time dashboards** across manufacturing, HR, and sales functions. UK-educated (MSc, Queen Mary London) with certifications from **McKinsey, LUMS, and Institute of Strategic Intelligence**. Seeking opportunities across **Data Science, Analytics Consulting, and Digital Transformation**.

## SKILLS

**Methodologies:** Design Thinking, Digital Transformation, HR & Finance Analytics, Predictive Analytics, Stakeholder Management, Workflow Automation

**Techniques:** Data Visualization, Generative AI, Kafka Pipelines, KPI Analytics, Machine Learning, Predictive Modeling, Robotics Process Automation, Similarity Model, Time Series Forecasting, Web Scrapping, Zero-Shot Learning

**Tools & Frameworks:** Asana, Figma, Microsoft Excel, Microsoft Power BI, Python, SQL (Oracle-DB2-MS SQL-PostgreSQL), Tableau

## WORK EXPERIENCE

### Interloop Limited • Faisalabad, Punjab, Pakistan • 02/2020 – Present

#### Senior Data Scientist

- Partner with Sales, HR, and Operations teams to deliver predictive analytics and BI solutions for strategic decision-making.
- Designed forecasting models and enterprise dashboards to support planning and efficiency.
- Unified data from **Oracle, DB2, and MS SQL** into a centralized **PostgreSQL warehouse**, delivering **Tableau dashboards** for SLA tracking and forecasting → improved sales order planning efficiency by **25%**.
- Built a **Generative AI recommendation engine** combining machine health scores with downtime and maintenance trends → reduced unplanned downtime by **15%**.

#### Data Scientist

- Designed AI-driven systems and BI dashboards to improve production, HR, and customer-facing processes.
- Collaborated with HR & Operations on automation and compliance initiatives.
- Developed an **ML-based recommendation engine** for product sampling → reduced lead-time by **3–4 days**.

- Built a **similarity-model search platform** → improved material selection efficiency by **30%**
- Implemented a **Zero-Shot NLP system with Kafka pipelines** → processed 10k+ customer reviews, delivering actionable product insights.
- Created a **Tableau dashboard** for 300+ knitting machines → improved OEE visibility and proactive control.
- Delivered **Python automation pipelines integrated with a Power BI dashboard** → cut HR workload by **70%** and reduced reporting errors by **40%**.

## EDUCATION

### **Master's degree in Computer Science**

Queen Mary University of London • 01/2017 - 12/2018

### **Bachelor of Science – BS in Computer Science**

National University of Computer and Emerging Sciences • 01/2012 - 12/2016

## CERTIFICATIONS

### **Sales Negotiation** • 05/2025

LinkedIn

### **Develop Your Customer Service Skills** • 05/2025

LinkedIn

### **Mastering Productivity with AI & Digital Excellence** • 02/2025

Institute of Strategic Intelligence

### **McKinsey Forward Program** • 04/2024

McKinsey & Company

### **Fundamentals of Data Analytics** • 06/2021

Lahore University of Management Sciences

### **Data Science & Machine Learning Using Python** • 03/2021

Lahore University of Management Sciences

## PROJECTS

### **Pub-Ve (Dissertation)** • 05/2018 - 08/2018

Queen Mary University of London

Developed a recommendation system for academic publication venues using TF-IDF + Cosine Similarity with a PyQt interface.

## **VOLUNTEERING & LEADERSHIP**

**Host Staffing** • 01/2017 – 01/2018

Customer Laison • London

Supported major events (football matches, concerts, charity events), enhancing client experience.