SAKINA SAIFUDDIN

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LinkedIn . Product Portfolio . GitHub

SUMMARY

Software, data, machine-learning, business intelligence, and AI engineer with 3.5+ years building applications, predictive models, KPI dashboards, data pipelines, and automation. Built a college-wide reconciliation system used across 11+ engineering departments for 1,074 monthly reports and 50+ accounts; analyzed 4M+ payroll and 500K+ banking records; achieved 91% ML accuracy; improved data mapping from 20% to 80%; and reduced manual work by 50%, reporting time by 25%, and software latency by 40%.

EDUCATION

Master of Science in Engineering Data Science & AI, University of Houston, Houston, TX Expected May 2027

Coursework: Predictive Data Analytics . Machine Learning . Advanced Artificial Neural Networks . Natural Language Processing . Artificial Intelligence . Big Data Analytics . Data Visualization

Bachelor of Computer Science (Gold Medalist), Iqra University, Pakistan, GPA: 3.89/4.0 Jan 2021 - Jan 2025

PROFESSIONAL EXPERIENCE

Texas Manufacturing Assistance Center (TMAC / NIST-MEP) - Houston, TX Feb 2026 - Present
Business Intelligence & Automation Intern

- Built and deployed the Cullen College of Engineering's reconciliation and verification system, now used by professors and administrators across 11+ departments; supports 1,074 monthly reports and 50+ accounts using Power BI, Power Apps, Power Automate, SQL, Excel, PeopleSoft, and SharePoint.
- Engineered Python/SQL ETL and validation for 4M+ payroll rows and 260K+ transactions, cutting manual effort 50% while enabling scheduled reviews, approvals, issue tickets, status tracking, and role-based access.

Dental-X AI - Los Angeles, CA May 2026 - Sep 2026
AI Automation Engineer Intern

- Built Python/SQL eligibility workflows connecting 15-20 PMS with payer APIs/270-271, RPA, BigQuery, Metabase, Postman, and JSON for 7 deployments; raised mapping accuracy from 20% to 80% and saved approximately 2 hours per case.

University of Houston - Department of Mathematics - Houston, TX Dec 2025 - Feb 2026
Graduate Research Assistant

- Developed a reproducible SVM and CNN pipeline for 1,000+ microscopy images using Python, Keras, OpenCV, and Scikit-learn; evaluated experiments and achieved 91% classification accuracy.

BluTech Consulting - Karachi, Pakistan May 2024 - Aug 2025
Business Intelligence Consultant

- Analyzed 500K+ banking records with SQL, Teradata, HiveQL, and Oracle; delivered 10+ Power BI/Tableau dashboards for KPIs, financial trends, anomalies, and root causes, cutting reporting turnaround 25%.

SoftSyncDev - Karachi, Pakistan Jan 2021 - May 2024
Software Engineer

- Developed and tested 5+ MERN applications and REST APIs using React, Node.js, Express, MongoDB, AWS S3, Git, and CI/CD; built an OpenAI API chatbot and optimized Prisma services, reducing response latency by 40%.

PROJECTS

Agentic AI Job Search & Outreach Platform

- Built a scheduled 7:00 a.m. workflow with GoAgent, Claude Code agents, n8n, Apify, Firecrawl, Airtable, and APIs to collect postings, score fit, create review queues, and retain human approval before submission.

AI-Driven Retail Inventory Forecasting & Optimization

- Modeled 3M+ retail sales records with time-series features and compared Linear Regression, Random Forest, and LightGBM using K-Fold validation to support demand forecasting and inventory planning.

GAN-Based Chest X-ray Augmentation for Pneumonia Detection

- Trained a DCGAN on approximately 5.2K images and generated 2,000 synthetic X-rays; retraining the CNN improved test accuracy from 73.56% to 82.21%.

SKILLS

Programming & Software: Python, SQL, JavaScript, TypeScript, React, Node.js, Express, REST APIs, Git, CI/CD
AI, ML & Predictive: Scikit-learn, PyTorch, TensorFlow, Keras, LightGBM, CNNs, GANs, SVMs, NLP, LLM APIs
Data, BI & Cloud: Pandas, NumPy, Power BI, Tableau, DAX, Power Query, BigQuery, Teradata, HiveQL, Excel
Automation: Power Apps, Power Automate, Microsoft 365, SharePoint, PeopleSoft, n8n, Airtable, Apify, Postman