IQBAL MAQBOOL SOFI

Data Scientist — Analytics Specialist — AI/ML Engineer

📞 (856) 244-0515 ✉ iqbalmaqbol@gmail.com ⬡ github.com/iqbalsofi 🌐 Portfolio 🔗 LinkedIn

PROFESSIONAL SUMMARY

Data Science graduate student and former Accenture Analytics Professional with 3+ years of experience delivering enterprise-scale analytics solutions and ML systems. Proven expertise in building production dashboards processing 500K+ daily interactions, developing ETL pipelines, and implementing deep learning models with 85-92% accuracy. Skilled in translating complex data into actionable business insights that drive measurable ROI.

TECHNICAL SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn), SQL, R, JavaScript, C#, Bash
Machine Learning & AI: PyTorch, TensorFlow, Keras, Vision Transformers (ViT), VQ-VAE, Regression, Classification, Clustering, Anomaly Detection, Computer Vision
Data Engineering: ETL Pipelines, Data Validation, SQL Server, MySQL, MongoDB, InfluxDB, Data Modeling
Analytics & Visualization: Power BI, Tableau, Adobe Analytics, Google Analytics, Excel (VBA), A/B Testing, Statistical Analysis
Cloud & Tools: AWS, Azure, Docker, Git/GitHub, REST APIs, Agile/JIRA, Jupyter, HPC/GPU Computing

EDUCATION

Rowan University   Glassboro, NJ
Master of Science in Data Science (In Progress)   *Aug 2024 – May 2026*
- **Relevant Coursework**: Machine Learning, Deep Learning, Statistical Analysis, Data Mining, Big Data Systems

Amity University   India
Bachelor of Technology in Computer Science   *Graduated 2021*

PROFESSIONAL EXPERIENCE

Custom Software Engineering Analyst   Feb 2022 – Aug 2024
Accenture   *Remote*
- Built enterprise-scale analytics solutions processing 500K+ daily customer interactions, delivering actionable insights to C-suite executives through Power BI and Tableau dashboards
- Engineered SQL-based ETL pipelines using Python (Pandas) to integrate multi-source data from Adobe Analytics and Google Analytics, improving data accuracy by 35%
- Conducted advanced customer segmentation using statistical analysis in R, identifying high-value customer cohorts that drove 20% increase in targeted marketing ROI
- Automated KPI tracking workflows using Excel VBA and Python, saving the analytics team 15+ hours weekly and reducing manual errors by 90%
- Collaborated with cross-functional marketing and product teams to define metrics, translate business requirements, and influence product roadmap decisions
- Completed Accenture Cloud Platform Training and Software Development Lifecycle (SDLC) certification programs

Associate Software Developer   Aug 2021 – Feb 2022
DXC Technology   *India*
- Developed enterprise backend systems and data integration tools for scalable, high-availability applications serving 10K+ concurrent users
- Built C#/.NET applications with SQL Server backends, writing optimized stored procedures and queries that improved system performance by 40%
- Designed and implemented REST APIs for internal data integration, increasing system reliability to 99.5% uptime
- Participated in Agile development sprints using JIRA, conducting code reviews and implementing comprehensive unit testing strategies

MACHINE LEARNING PROJECTS

Vision Transformer Image Classification   PyTorch, Computer Vision, HPC
- Fine-tuned pre-trained Vision Transformer (ViT) model on ImageNet100 dataset, achieving 85% validation accuracy through systematic hyperparameter optimization
- Implemented advanced data augmentation techniques, learning rate scheduling, and mixed-precision training for efficient GPU utilization
- Trained models on university HPC cluster with GPU acceleration, demonstrating expertise in large-scale deep learning workflows

Defect Detection with Autoencoders   PyTorch, Anomaly Detection, Unsupervised Learning
- Implemented Vector Quantized Variational Autoencoder (VQ-VAE) for unsupervised anomaly detection on manufacturing defect datasets
- Achieved 92% detection accuracy using reconstruction error as anomaly score, outperforming baseline supervised methods
- Designed scalable inference pipeline suitable for real-time quality control applications

IoT Sensor Data Analytics System   InfluxDB, MongoDB, Time-Series Analysis
- Built dual-database architecture for storing and analyzing simulated smart home sensor data with real-time monitoring capabilities
- Developed alerting system processing 10K+ sensor readings per minute with sub-second latency using time-series optimization
- Implemented statistical anomaly detection algorithms to identify sensor failures and environmental anomalies with interactive dashboards

5G Network Security Research   Network Security, Cloud Computing, IoT
- Conducted comprehensive security analysis of Cloud and IoT integrations within 5G network architectures
- Identified critical vulnerabilities in edge computing deployments and proposed mitigation strategies for production environments
- Presented research findings at university symposium, contributing to ongoing security standardization discussions

CERTIFICATIONS & TRAINING

Google Data Analytics Professional Certificate — Google
Accenture Cloud Platform Training — Accenture
Software Development Lifecycle (SDLC) Certification — Accenture

KEY ACHIEVEMENTS

Business Impact: Delivered customer segmentation insights driving 20% increase in marketing ROI
Efficiency Gains: Automated analytics workflows saving 15+ hours weekly across team operations
Scale: Managed enterprise dashboards processing 500K+ daily customer interactions
ML Performance: Achieved 85-92% accuracy in production-ready ML models across multiple domains