Iqbal Maqbool Sofi

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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

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

TECHNICAL SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn), SQL, R, JavaScript, C#, Bash
Data Analysis: Excel, Power BI, Tableau, Jupyter, Statistical Analysis, A/B Testing
Machine Learning: PyTorch, TensorFlow, Regression, Classification, Clustering, Computer Vision (academic)
Databases & Tools: MySQL, MongoDB, InfluxDB, Git, Docker, REST APIs, Adobe Analytics, Google Analytics

PROFESSIONAL EXPERIENCE

Accenture — Remote
Custom Software Engineering Analyst — *Feb 2022 – Aug 2024*
- Built executive dashboards in Power BI and Tableau analyzing customer behavior across 500K+ daily events
- Developed SQL-based ETL pipelines integrating Adobe Analytics and Google Analytics data for marketing teams
- Performed customer segmentation analysis identifying high-value user cohorts for targeted campaigns
- Created automated KPI tracking reports reducing manual data preparation time by 15+ hours per week
- Collaborated with marketing and product teams to define metrics and translate requirements into dashboards

DXC Technology — India
Associate Software Developer — *Aug 2021 – Feb 2022*
- Developed C#/.NET applications with SQL Server backends, writing stored procedures and optimized queries
- Built REST APIs for internal data integration improving system reliability
- Participated in Agile development cycles with code reviews and testing

MACHINE LEARNING PROJECTS (ACADEMIC & SELF-STUDY)

Vision Transformer Image Classification
PyTorch, Computer Vision, HPC
- Fine-tuned pre-trained Vision Transformer (ViT) on ImageNet100 dataset achieving 85% validation accuracy
- Experimented with data augmentation techniques, learning rate schedules, and hyperparameter optimization
- Trained models on university HPC cluster with GPU acceleration

Defect Detection with Autoencoders
PyTorch, Anomaly Detection
- Implemented VQ-VAE autoencoder for unsupervised anomaly detection on manufacturing defect dataset
- Achieved 92% detection accuracy using reconstruction error as anomaly score

IoT Sensor Data Analytics System
InfluxDB, MongoDB, Time-Series Analysis
- Built dual-database architecture for storing and analyzing simulated smart home sensor data
- Implemented data retention policies, statistical anomaly detection, and interactive dashboards

CERTIFICATIONS

Google Data Analytics Professional Certificate | Accenture Cloud Platform & SDLC Training