

AQUIB FARHAAN HUSSAIN

DATA SCIENTIST

aquib.farhaan2@gmail.com | Bangalore, India | +918638510516

LinkedIn: aquibfarhaan GitHub: aquib97

PROFESSIONAL SUMMARY

Accomplished Data Science professional with 6+ years of expertise in predictive analytics, machine learning, and data mining. Demonstrated success in developing ETL pipelines and statistical models that increased workflow efficiency by 30% and generated \$10M+ in cost savings. Specialized in feature engineering, model deployment, and business intelligence across multiple industries.

SKILLS

Programming: Python (NumPy, Pandas, SciPy), SQL, R

Databases: MySQL, SQLite, Redis, MongoDB, PostgreSQL, Data Warehousing

Frameworks: FastAPI, Flask, PySpark, Airflow, Kafka

Cloud Platforms: Microsoft Azure (AzureML, Cognitive Services), GCP (BigQuery, Vertex AI), AWS (SageMaker, Lambda)

Data Governance: Data Quality, ETL Pipelines, Data Modeling, dbt

Machine Learning: Regression, Classification, Clustering, A/B Testing, XGBoost, LightGBM

Deep Learning: Neural Networks, NLP (BERT, GPT), Computer Vision, Feature Engineering

Data Tools: Scikit-Learn, TensorFlow, PyTorch, Keras, Databricks, MLflow

Data Visualization: Matplotlib, Seaborn, Plotly, Power BI, Tableau, D3.js

Business Intelligence: Statistical Analysis, Predictive Modeling, SAP, Looker

WORK EXPERIENCE

ACCELEDGE | Pune, Maharashtra

Apr' 23 - Present

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- **VOICE BOT PLATFORM:** Pioneered a scalable voice bot with dialer API integration, processing 10,000+ daily calls via MongoDB and caching, increasing customer engagement metrics by 40%.
- Engineered an end-to-end audio interaction service that cut response latency by 65% and elevated user satisfaction scores by 45%.
- Merged GenAI capabilities (OpenAI + LangChain) for response generation, elevating system throughput by 35% and extending multilingual support to 8+ languages.
- Launched a robust audio pipeline with memory management, slashing latency by 50% while sustaining 99.5% system availability.
- **WEB BOT PLATFORM:** Conceptualized a scalable chatbot platform for web and WhatsApp applications using JSON-based architecture, driving a 55% increase in user engagement and 30% reduction in support costs.
- Configured MongoDB for session management with RAG techniques and LLM models, improving response precision by 40% and shortening processing cycles by 25%.
- Expanded platform capabilities with API integration, sentiment analysis, and multilingual support, resulting in 65% stronger user retention and 70% more efficient query processing.
- **AUDIO PROCESSING AND NLP AUTOMATION:** Crafted FastAPI microservices for multilingual audio pipelines with SpeechBrain and Google STT, handling 5,000+ monthly audio files with 98% transcription accuracy.
- Designed APIs with flexible input support, token-based security, and fault handling, diminishing system failures by 75% and transforming cross-language NLP task performance by 60%.
- **DATA SCRAPING AND AUTOMATION:** Programmed Selenium-based web scraping solutions that trimmed manual data collection time by 90%, extracting and transforming 500+ data files daily.
- Instituted post-processing pipelines and logging systems with SQL database integration, powering real-time visualizations that expedited decision-making by 70%.

NETWORTH CORP | Bangalore, Karnataka

Feb' 21 - Apr'23

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- **TOTAL EXTRACT LOSS OPTIMIZATION:** Executed root cause analysis using regression techniques and Shap value-driven feature importance, pinpointing 8 critical factors affecting yield loss.
- Formulated optimal process control parameters through historical data analysis, generating a 0.65% production increase and \$450K annual cost efficiency.
- Modeled scalable data pipelines that transformed high-volume dataset analysis, enabling 40% faster insights and transitioning from monthly to weekly reporting cycles.
- **SPACE OPTIMIZATION:** Invented an optimization algorithm for SKU combination in route assembly, amplifying truck space utilization by 35% and curtailing transportation expenses by \$300K monthly.
- **ELECTRICITY FORECAST IN BREWERIES:** Investigated 15-minute interval electricity consumption patterns across brewery operations, uncovering peak usage periods and efficiency opportunities.

- Applied time series forecasting with LSTM models achieving 90% prediction accuracy, facilitating a 15% reduction in electricity consumption through strategic scheduling.
- Engineered an automation tool for MRP controller validation and SAP responsibility management that streamlined incident processing and reduced manual intervention time by 85%.
- Spearheaded an SLA breach monitoring system with automated alerts, prioritizing critical cases and contributing to substantial cost avoidance through proactive incident management.

TECH MAHINDRA | Noida

Feb' 19 - Dec'20

DATA ANALYST

- Led advanced analytics initiatives that transformed business processes, resulting in 30% workflow optimization through machine learning and statistical modeling techniques.
- Constructed ETL pipelines using Pandas and NumPy, processing 2TB+ of monthly data with 99.8% accuracy for predictive analytics applications.
- Developed data APIs with Flask that streamlined system integration by 40% and facilitated real-time analytics across 5+ enterprise systems.
- Produced data-driven insights that compressed decision-making cycles by 50% through advanced statistical analysis and predictive modeling.
- Revamped reporting processes, slashing generation time by 75% while upgrading data visualization quality by 60% for executive dashboards.

PROJECTS

SENTIMENT ANALYSIS AND MODEL TRAINING

- Processed 1.6M Twitter records for sentiment classification with 92% accuracy, elevating customer insight generation by 40% through advanced NLP techniques.
- Evaluated model performance (GloVe+Stacked Bi-LSTM, ANN, Logistic Regression), delivering 15% accuracy gains over baseline through sophisticated feature engineering.

OIL WELL SHUTDOWN PROCESS AUTOMATION (FREELANCE)

- Conducted statistical analysis of neighboring well behavior during center well shutdown, processing 13GB of data from 60 wells using advanced analytical methods.
- Deployed predictive analysis algorithms that shortened shutdown planning cycles by 65% and heightened production forecasting precision by 30%.
- Optimized visualization processes, enabling stakeholders to identify patterns 5x faster and execute data-driven decisions through interactive dashboards.

EDUCATION

Bachelor of Science (Honors in Physics)

Gauhati University | Guwahati, India

Jun' 15 - May'18

C.G.P.A -7.5 / 10

CERTIFICATION

- **Machine Learning Masters**
iNeuron Intelligence | Nov' 20 - Jul'21
- **Business Analytics Masters**
iNeuron Intelligence | Oct' 20 - Jun'21

LANGUAGES

English Hindi Assamese