SAUD MUHAMMAD

DATA ENGINEER AND SCIENTIST

CONTACT

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SKILLS

- Python
- Database(PostgreSql)
- Data Analysis
- ETL Pipelines
- PySpark
- ML Algorithms
- Git & Github
- Creative Thinking
- Problem Solving

LANGUAGES

- English
- Urdu
- Pustho

PROFILE

Detail-oriented and analytical Data Professional with hands-on experience in Python, PostgreSQL, and data analysis. Skilled in building robust ETL pipelines and leveraging PySpark for large-scale data processing. Strong understanding of machine learning algorithms, with a focus on practical implementation and insight extraction. Proficient in version control using Git & GitHub, with a track record of solving complex problems through creative thinking and a results-driven mindset.

EXPERIENCE

TumorWatchAI
Neural Network-based Tumor Classification System (FYP)

- Developed an advanced AI system to classify tumors from CT scans and MRI images with 97.3% accuracy using deep learning techniques.
- Built an end-to-end preprocessing and inference pipeline supporting DICOM medical images for both web and mobile platforms.
- Leveraged technologies: Python, TensorFlow, Keras, OpenCV, FastAPI to design and deploy the solution.

Real-Time Disaster Response Pipeline
Streaming Data Pipeline for Earthquake Monitoring and Alerting

- Engineered a high-throughput pipeline processing 10,000+ earthquake events per minute for real-time analysis and alerting.
- Created an interactive dashboard for visualization and historical data analysis to aid rapid disaster response.
- Implemented with Apache Kafka, Apache Spark, PostgreSQL, Python, and Streamlit.

EDUCATION

2021-2025

Bechelor of Computer Science
National University of Modern Languages