

Piyush Pandey

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Education

VIT Bhopal University, Bhopal, India
Integrated M.Tech in Data Science

Oct. 2022 – Apr. 2027

Professional Experience

Data Analyst Intern

Nov. 2025 – Jan. 2026

Ernst & Young (EY)

- Designed and deployed scalable Parquet data processing pipelines on Azure Databricks using PySpark, implementing schema validation and data quality checks that improved data accuracy by 25% and reduced downstream errors.
- Optimized Delta Lake table architecture on Databricks, achieving a 40% reduction in query execution time and enabling real-time analytics for stakeholders across 5+ departments.
- Automated end-to-end ETL workflows from Azure Databricks to MySQL using Python connectors, reducing manual data synchronization time by 80% and ensuring 99.9% data consistency.
- Collaborated with cross-functional teams including product managers and business analysts to translate complex requirements into actionable data models, supporting 10+ key business initiatives.

Projects

Databricks Lakehouse (Medallion Architecture)

Oct 2025 – Nov 2025

PySpark, Delta Lake, DLT, SQL

- Architected a production-grade Medallion Architecture (Bronze, Silver, Gold) using Databricks Auto Loader, processing 2M+ records daily with 99.5% uptime.
- Implemented SCD Type 1 and Type 2 using Delta Live Tables (DLT), preserving historical data lineage and enforcing quality rules that flagged 15% anomalous records.
- Orchestrated automated ETL workflows via Databricks Jobs and delivered BI-ready datasets through SQL Warehouses, reducing report generation time by 60%.

Enterprise Parquet-to-Analytics Pipeline

Nov 2025 – Jan 2026

Azure Databricks, PySpark, MySQL, Delta Lake

- Built a fault-tolerant PySpark pipeline to process 500GB+ of Parquet data daily with automated schema drift detection.
- Designed a hybrid architecture integrating Delta Lake with MySQL, enabling analytical and operational reporting and improving ad-hoc query performance by 35%.

Customer Churn Prediction using Machine Learning

Aug 2025 – Sept 2025

Python, Scikit-learn, XGBoost, Pandas

- Developed an end-to-end ML pipeline achieving 87% churn prediction accuracy using EDA, feature engineering, and data preprocessing on 50,000+ records.
- Tuned XGBoost and Random Forest models with 5-fold cross-validation, improving performance by 12% over baseline logistic regression.
- Used SHAP and feature importance analysis to identify key churn drivers, producing insights that could reduce churn by 18%.

Technical Skills

Programming & Query Languages: Python, SQL, Java, C++

Data Engineering & Cloud: PySpark, Azure Databricks, Delta Lake, ADLS Gen2, Azure Data Factory

Analytics & Machine Learning: Pandas, NumPy, Scikit-learn, Feature Engineering, EDA, Statistical Modeling, Predictive Analytics

Visualization & Tools: Power BI, SQL Warehouses, MySQL, Git, Azure DevOps, Delta Live Tables (DLT)

Certifications

Applied Machine Learning

Coursera

Covered supervised and unsupervised learning, model evaluation, feature engineering, and practical machine learning workflows using Python and Scikit-learn.