Vishal Khan

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An industrious Professional Data Engineer with **4+ years of experience**. Skilled in data cleaning, transformation, visualization, and analysis. Experienced in **machine learning and deep learning**. Holds a **M. Sc. in Data Science from LJMU, England** and **authored a research paper in deep learning**.

Tools & Skills

Tools: MySQL, SSMS, DataBricks, Azure Data Factory, GitHub, VS Code, Anaconda Jupyter Notebooks, Google Colab, AWS, Azure, SAP 4HANA, MS Office

Languages: Python, R, SQL, DAX

Statistic & EDA: Univariate Analysis, Bivariate Analysis, Multivariate Analysis, Hypothesis Testing, Feature Engineering

Data Science: Predictive Modeling, Statistical Modeling, Machine Learning, Deep Learning, Regression, Clustering, Time-series Forecasting, NLP, Neural Networks, Transfer Learning, Computer Vision

Libraries: Pandas, NumPy, PyTorch, TensorFlow, Keras, Statsmodel, Scikit-learn, Plotly, Matplotlib, Seaborn, OpenCV

Visualization Tools: Power BI, Tableau, Microsoft Excel, Microsoft PowerPoint

Experience

Teleperformance Global Business Pvt. Ltd. *June 2024–Jan 2026*
Data Engineer

- Developed and maintained **SSMS/Databricks data pipelines for telecom data**, ensuring seamless data flow and processing
- Migrated on-prem **database schemas to Databricks, increasing efficiency by 50% and lowering costs by 20%** by reducing on-prem infrastructure dependency

Avant Garde Clean Room & Engg. Solutions Pvt. Ltd. *Aug 2021–Dec 2023*
Commercial Executive

- **Boosted Excel proficiency**, cutting reporting time by **50%** and enhancing accuracy in revenue and collection data analysis using advanced Excel
- Cleaned, validated, and preprocessed data using **Python and SQL** to ensure accuracy and consistency, resulting in the creation of reports and generation of insights
- Built ML sales forecasting models with **80–90% accuracy**

Aryan Care Pvt. Ltd. *Jan 2021–Aug 2021*
E-commerce & Finance Executive

- Achieved **15% increase in sales** through branding strategies
- Managed GST, ITR filings, and audits

Other Firms/Companies *Jul 2018–Sep 2020*
Finance/Accounts/Taxation

- **2 years of finance and taxation operations experience**

Education

Northeastern University London, UK   Jan 2026–Jan 2027
M. Sc. in AI and CS

Liverpool John Moores University, UK   Mar 2023–Mar 2024
M. Sc. in Data Science

IIIT Bangalore, India   Jan 2022–Jan 2023
Executive PG Program in Data Science

University of Delhi   Nov 2018–Nov 2021
Bachelor of Commerce

Projects

Image Classification (Deep Learning)

- **Objective:** Develop a Convolutional Neural Network model for image classification on the CIFAR-10 dataset

- **Approach:** Designed a **CNN in TensorFlow/Keras** with normalization, dropout, and L2 regularization to enhance accuracy and generalization.

- **Result:** Achieve a training accuracy of **72.12%** and a validation accuracy of **74.06%** after 5 epochs

Telecom Churn Prediction (Machine Learning)

- **Objective:** Predict customer churn based on 21 predictor variables

- **Approach:** Conducted thorough exploratory data analysis (EDA) and preprocessing for modeling

- **Result:** Achieved **80% accuracy** with Logistic Regression and identified tenure as the most significant predictor

Bank Loan Dashboard (Data Visualization)

- **Objective:** Design a Home Loan Dashboard for executives

- **Approach:** Utilized Microsoft Power BI

- **Result:** Built a dashboard revealing **July 2019 as peak month**, **group-insurance loans as top product**, with **53% recovery rate**

Publications

Reinforcement Learning for Real-Time Pricing Optimization in E-Comm
(IEEE Journal, 2024)

Certifications

- Data Science Programming Bootcamp

- Machine/Deep Learning Certificate

- SQL — HackerRank

- AWS Certificate — Great Learning

- Data Toolkit

Data Consent: **I consent to the processing of my personal data for recruitment purposes under UK GDPR.**
External Links: **Selected headings include hyperlinks to supporting projects and credentials.**