

# Jakir Husain Luhar

➤ [Email](#) ➤ +91 8209391480 ➤ [LinkedIn](#) ➤ [GitHub](#)

➤ B.Tech in Computer Science, Engineering College Bikaner, 2017-2021 - 75%

## Professional Summary

- Highly skilled data engineer and scientist with expertise in designing and implementing data pipelines, developing machine learning models, and driving business growth through data-driven insights.

## Skills

- Programming Languages:** Python (Advanced), SQL
- Databases:** PostgreSQL, Snowflake, MySQL, MongoDB
- Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, OpenCV, Streamlit, SQLAlchemy
- Machine Learning:** EDA, Hypothesis Testing, Polynomial & Logistic Regression, Naive Bayes, SVM, Decision Tree, Random Forest, Recommendation Systems
- Deep Learning & Sequence Models:** ANN, CNN, RNN, GRU, LSTM, Encoder-Decoder, Sequence-to-Sequence Models, Attention Mechanism, Transformers, Time Series Prediction, NLP
- Large Language Models & Generative AI:** LLMs, Prompt Engineering, LangChain, Hugging Face, Groq
- Web Scraping & API Tools:** Selenium, Playwright, BeautifulSoup, Requests, Scrapy, Postman
- BI & Visualization Tools:** Google Data Studio, Tableau, Power BI
- AutoML & Cloud Platforms:** Google Vertex AI, BigQuery
- Customer Engagement Platforms:** CleverTap, WebEngage

## Work Experience

### Data Engineer - Alternative Path Pvt. Ltd., Gurgaon (Dec 2023 - present)

- Developed and maintained data pipelines to ingest data from diverse sources including web scraping (APIs and HTML), third-party vendors via Amazon S3, and email attachments.
- Transformed, cleaned, and loaded structured and unstructured data into databases such as PostgreSQL and Snowflake using SQLAlchemy and Python-based ETL processes.
- Performed downstream data enrichment including sentiment analysis, timestamp comparison, and extracting key insights using custom logic and NLP models.
- Automated the distribution of processed data and insights to portfolio managers via email (HTML tables using `great_tables`) and S3 bucket integration.

### Data Scientist - WitZeal Technology Pvt. Ltd., Gurgaon (Oct 2022 - Nov 2023)

- Created a Retention Engine using clustering (K-Means with PyCluster) and bonus allocation logic.
- Developed fraud detection algorithms to prevent abuse of cashback bonuses using behavioral pattern recognition in Python.
- Built Funnels on CleverTap to track and improve user conversion flows.

### Data Scientist - Voosh Food Tech Pvt. Ltd., Bangalore (Oct 2021 - Oct 2022)

- Built a Menu Engineering algorithm using Levenshtein Distance and NLP.
- Designed ETL pipelines using Selenium and Python to collect data from multiple sources.
- Applied Naive Bayes for Cuisine Classification and Apriori Algorithm for combo analysis.

### Freelance Data Scientist (Apr 2018 - Oct 2021)

- Delivered 50+ ML projects and 300+ Python Selenium-based scraping jobs for businesses and researchers.
- Built visual dashboards using Google Data Studio.

## Projects

- **AI School Management (ASM):** Built automated attendance and AI-enabled library system using OpenCV & Deep Learning.
- **AI Video Processing (AVP):** Web app for background/foreground estimation, panorama stitching, and document scanning.
- **Automated Model Selection:** Tool that outputs the best classification model by comparing metric + complexity trade-offs.
- **Enhance Accuracy:** Applied Random Forest and hyperparameter tuning to improve medical data classification accuracy from 60% to 95%.
- **Smart & Secure Parking System:** Used ML, IoT, OpenCV to develop license plate-based entry/exit and monitoring system.
- **Real Estate Predictor:** Model visualizes optimal architectural choices based on locality-specific data to enhance profitability.
- **Insurance Claim Analysis:** Built fraud analysis pipeline to detect claim issues—vehicle or part quality.
- **Kaggle Walmart Forecast:** EDA on item-level data, sales prediction model to optimize store inventory.
- **Diet Planer with AI:** Python-based web application that uses GROQ and Streamlit to generate personalized diet plans.
- **Resume builder using AI:** Smart resume generator that builds customized resumes based on LinkedIn job descriptions and your experience using AI.

## Certifications

- Machine Learning - Internshala
- Python (20+ Projects) - Udemy
- Deep Learning - Udemy
- Machine Learning - Udemy
- Basics of R Programming - Udemy
- C++ Developer - Samyak IT Solutions Pvt. Ltd.

## Achievements

- Finalist - TechGig Code Gladiators
- 1st Rank - Analytics Vidhya Challenge by Internshala
- 1st Rank - College Wall Decoration Competition
- Co-founder - Technical Club "AARON"

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