

SAKSHAM PATHAK

Lucknow, Uttar Pradesh, India

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PROFESSIONAL SUMMARY

A motivated and detail-oriented B.Tech undergraduate specializing in Artificial Intelligence with hands-on experience in Data Analysis, Machine Learning, and Data Engineering. Skilled in Python, SQL, Power BI, and data visualization with practical exposure to ETL pipelines, predictive analytics, and business intelligence solutions. Passionate about building AI-driven applications and solving real-world problems through data-driven approaches.

EDUCATION

Bansal Institute of Engineering and Technology

Bachelor of Technology in CSE - Artificial Intelligence

Lucknow, India

2022 – 2026

TECHNICAL SKILLS

- **Programming Languages:** Python, R Programming, C, SQL, HTML/CSS
- **Libraries & Frameworks:** Pandas, NumPy, Matplotlib, OpenCV, TensorFlow
- **Data Analysis Skills:** Data Cleaning, EDA, Feature Engineering, Data Visualization, Predictive Modeling
- **Visualization & BI Tools:** Power BI, Tableau, MS Excel
- **Databases:** MySQL, SQLite
- **Tools & Platforms:** Jupyter Notebook, VS Code, Google Cloud Platform, Git
- **Core Concepts:** ETL Pipelines, Data Warehousing, Machine Learning, Business Intelligence

EXPERIENCE

HCL-Tech

Data Engineering Trainee

Remote

Oct 2024 – Mar 2025

Completed intensive training on ETL pipelines, data warehousing, and big data technologies. Worked with Apache Spark and Python for data extraction, transformation, and loading processes. Implemented data quality validation and monitoring processes to ensure pipeline reliability.

Elevate Labs

Data Analyst Intern

Remote

Aug 2025 – Sep 2025

Contributed to real-world data analysis and reporting projects for business insights generation. Applied analytical techniques to interpret datasets and support data-driven decision-making. Recognized for strong analytical ability, commitment, and professional conduct during internship.

PROJECTS

American Sign Language Detector

Python, OpenCV, TensorFlow, CNN

May 2023

Developed a real-time ASL recognition system capable of identifying hand gestures using machine learning. Trained a Convolutional Neural Network (CNN) model on labeled gesture datasets for accurate prediction. Built a webcam-based application that converts recognized gestures into readable on-screen text.

Smart Attendance System

Python, OpenCV, SQLite, Face Recognition

Jan 2024

Designed a hybrid attendance system integrating facial recognition, QR code scanning. Integrated OpenCV and SQLite for automated student data capture and attendance management. Enabled real-time tracking and duplicate-entry prevention for enhanced attendance authenticity.

IBM HR Analytics – Employee Attrition Prediction

Python, SQL, Power BI

2025

Performed data cleaning, exploratory data analysis, and feature analysis using Python and Excel. Developed optimized SQL queries for efficient data extraction and transformation. Built interactive Power BI dashboards to visualize employee attrition trends and HR KPIs.

CERTIFICATIONS

- Python Certification – Kaggle
- R for Data Analysis – Coursera

