

Bablu Kumar Jha

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Professional Summary:

Data Scientist with strong hands-on expertise in machine learning, deep learning, predictive analytics, and data visualization. Proficient in Python, MySQL, Power BI, and ML frameworks such as Scikit Learn & PyTorch, with proven experience delivering end-to-end ML solutions including forecasting models, churn prediction systems, NLP-based chatbots, and recommendation engines.

Highly skilled in data cleaning, feature engineering, model evaluation, and automated reporting, enabling the transformation of complex datasets into actionable business insights. Possesses a unique multidisciplinary background in B.Sc. (Zoology) along with financial accounting and taxation, providing strong domain understanding for working with structured business and financial data.

Passionate about leveraging AI/ML-driven solutions to solve real-world problems, optimize decision-making, and drive measurable business growth.

Professional Experience:

1) Data Scientist

Vinod Textile | Nov 2025 – Present

- Performed **data cleaning, preprocessing, and feature engineering** on large structured datasets to ensure high-quality inputs for analysis and modeling.
- Built and deployed **predictive models** including **sales forecasting** and **customer segmentation** using historical data.
- Applied machine learning algorithms for trend analysis, **classification**, and **prediction** to solve real-world **business problems**.
- Automated **50–80%** of reporting and analytics workflows using Python, Excel, and Power BI, improving efficiency and accuracy.
- Designed and maintained interactive dashboards and **automated reports** for monitoring key business KPIs.
- Collaborated with cross-functional teams to translate business requirements into scalable data science solutions.

2) Account Officer cum Data Scientist

Pentagon Group | Dec 2024 – Nov 2025

- Processed sales & purchase invoices, journal entries, contra, payments, and receipts.
- Ensured compliance with GST, TDS, E-Invoice, and E-Way Bill.
- Conducted bank reconciliations and maintained **accurate financial data**.
- **Cleaned and analyzed large sales datasets** to **identify patterns** and **improve data** quality.
- Built **sales trend analysis** and **product segmentation** models to **support business strategy**.
- **Automated Excel & Power BI reports** to improve **decision-making** efficiency. Reports Automated by the help of Excel, MySQL and Python with **100%** accuracy.

3) Computer and Tally Trainer

Raah Foundation | Dec 2023 – Dec 2024

- Delivered training in computer fundamentals, MS Office, and Tally ERP.
 - Provided hands-on training in financial accounting operations.
 - Monitored progress through LMS systems and conducted assessments.
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Projects:

- [Automated Sales Forecasting Platform \(Live Web Application\)](#) — Built a platform using Django, Pandas, and XGBoost where users can upload datasets and automatically generate sales forecasts through a dynamic ML pipeline. Deployed on Amazon EC2 (AWS) for real-time predictions.
 - [Automated Skin Cancer Detector \(Deep Learning\)](#) — Built a CNN with PyTorch to classify skin diseases using medical image datasets — [live click here](#).
 - [Sales Forecasting \(Time Series\)](#) — Predicted sales trends using historical data and ML models. (Python, Pandas, Prophet, ARIMA).
 - [Customer Churn Prediction](#) — Designed a classification model to predict customer attrition. (Python, Scikit-learn, XGBoost)- [live click here](#).
 - [Movie Recommendation System](#) — Built a recommender system using collaborative filtering. (Python, Pandas, Scikit-learn)
 - [Simple Chatbot \(NLP\)](#) — Developed a rule-based/NLP chatbot for basic chat. (Python, NLTK)- [live click here](#).
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Certifications:

- [Data Visualization with Python](#) — IBM, Aug 2024
 - [Data Science](#) — IBM, Aug 2024
 - [Machine Learning and AI with Python](#) From [Harvard University](#)— edX, Aug 2024
 - [SQL and Relational Databases](#) — IBM, Aug 2024
 - [Microsoft Certified Solutions Expert: Data Management and Analytics](#) — Microsoft, Jul 2024
 - [Python 101 for Data Science](#) — IBM, Jul 2024
 - Python Seaborn — Great Learning, Jul 2024
 - [R Programming Language](#) — Great Learning, Jul 2024
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Education:

 B.Sc. (Zoology) — LNMU, Darbhanga – 2023

Technical Skills:

- **Programming & ML:** Python (Pandas, NumPy, Scikit-learn, PyTorch, Matplotlib, Seaborn, Streamlit), Docker, Django, HTML, Bootstrap.
 - **Visualization & BI:** Power BI, Excel (Advanced)
 - **Web & Cloud:** AWS, GIT & Github.
 - **Databases:** SQL, MongoDB
 - **Other Tools:** LMS platforms, Tally, ERP, GST, TDS, E-Invoice, E-Way Bill
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Core Competencies:

- Financial Accounting & Reporting
- Taxation (GST, TDS)
- Data Cleaning & Preprocessing
- Sales & Market Trend Analysis
- Machine Learning & Deep Learning (PyTorch)
- Forecasting & Predictive Modeling
- Automated Reporting & Dashboards
- Training & Curriculum Development
- Ai & Automation.
- API integration