

KRISHNA JAISWAL

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EDUCATION

Axis Institute Of Technology And Management <i>B.Tech in Data Science</i>	6.89 GPA	2022 – 2025
Mahamaya Polytechnic Of Information Technology <i>Diploma in Computer Science Engineering</i>	76%	2019 – 2022 <i>Siddharth Nagar, India</i>
MPIC Inter College <i>High School</i>	68%	2015 – 2017 <i>Rudhau, India</i>

COURSEWORK / SKILLS

- Python
- Machine Learning
- Exploratory Data Analysis (EDA)
- MCP((Model Context Protocol)
- DAX
- MySQL
- Power BI
- Microsoft Azure
- Data Warehousing
- Excel
- NLP
- Power Query
- RAG
- Django

Experience

AIonOS (Client: IndiGo Airlines) Gurgaon, Haryana <i>Associate Software Engineer(AI/ML Engineer)</i>	Aug 2025 – Present
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- Developed MCP tools enabling tool planning, structured execution, and intelligent workflow orchestration, integrating LLM-based reasoning and retrieval mechanisms for airline operational systems.
- Implemented backend services for real-time aviation data processing, including METAR and TAF monitoring pipelines, using Playwright and BeautifulSoup to reliably scrape data from multiple official sources.
- Developed a RAG-based chatbot where users upload PDF documents, generate embeddings stored in ChromaDB, and perform semantic retrieval to deliver context-aware responses through a React frontend.
- Designed FastMCP-based APIs and async services to retrieve contextual data from MongoDB, supporting MCP-driven workflows and chatbot interactions.
- Collaborated with cross-functional teams including backend, frontend, and data engineers to deliver scalable, production-grade airline software supporting operational and data-driven workflows.

Education Culture Pvt. Ltd., Ludhiana ↗

Feb 2025 – Jul 2025

Python Developer Cum Technical Writer

Hybrid

- Designed and deployed 10+ end-to-end analytics solutions using Python, Power BI, and Excel, improving client reporting speed by 40%.
- Developed advanced NLP pipelines using **BERT**, **CNN**, and **RNN** architectures achieving up to 92% accuracy in text classification tasks.
- Created and implemented interactive dashboards in **Power BI** and **Tableau** to monitor key sales and customer KPIs across 3 business units, reducing manual reporting time by 30% .
- Created clear, organized documentation for ML models and experiments to assist team collaboration and knowledge sharing.
- Conducted A/B testing and statistical analysis on product recommendation models in a project setting to evaluate performance and optimize user relevance.
- Used TensorFlow and Hugging Face Transformers to deploy scalable ML models on Flask.
- Visualized model performance using confusion matrices and ROC curves for 10K+ sample datasets.
- Enhanced precision and recall scores by 15% through iterative hyperparameter tuning and stratified cross-validation.

Projects

Pizza Prices Prediction ↗ Pandas, NumPy, Matplotlib, Seaborn, Sklearn

Nov 2024

- Conducted extensive exploratory data analysis on a pizza pricing dataset (1,200+ rows) using univariate and multivariate techniques to identify pricing drivers.
- Cleaned and transformed raw data, reducing missing values by 95% through advanced imputation strategies.
- Employed Matplotlib and Seaborn to create insightful visualizations of feature relationships, leading to the identification of five key variables that accounted for 80% of pizza price variance.
- Engineered and fine-tuned regression models including Random Forest, XGBoost, and SVR, achieving a stellar R² score of 0.91, indicating strong model performance.
- Applied feature selection techniques to reduce dimensionality by 35%, resulting in a 12% boost in model accuracy.
- Evaluated and optimized models using cross-validation and residual analysis, improving accuracy by 78% and reducing RMSE by 0.56%
- Project Link

Global Superstore Dashboard ↗ Power BI, DAX, Power Query

Aug 2024

- Designed and deployed an interactive Power BI dashboard for a dataset with 10K+ transactions across 13 global regions.
- Created 5+ advanced DAX measures in Power BI to analyze profit margins, year-over-year sales trends, and shipping delays across a dataset of 5,000+ transactions.
- Merged and cleaned data from 3+ sources using Power Query, reducing manual effort by 50%.
- Scheduled automated data refreshes and report delivery for 5 key stakeholders, enabling real-time insights.
- Elevated analysis efficiency by 25% by adding interactive KPIs, slicers, and drill-through pages in Power BI, enabling faster insight extraction from multi-level sales data.
- Download Report

TECHNICAL SKILLS

Programming Languages: Python, Machine Learning, C, SQL

Data Analytics & BI Tools: Power BI, Microsoft Excel (Advanced), Tableau, Google Colab, Jupyter Notebook

Developer Tools & IDEs: Visual Studio Code, PyCharm, GitHub

Concepts & Techniques: Machine Learning, Deep Learning, Natural Language Processing (NLP), CNN, RNN, Data Cleaning, Feature Engineering, Model Evaluation, ETL, Data Warehousing, DAX, Power Query

CERTIFICATIONS

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| • Data Science - ThinkNEXT Technologies | • Python – ThinkNEXT Technologies |
| • Google Data Analytics – Coursera | • SQL |
| • Machine Learning - ThinkNEXT Technologies
– Accenture | • Data Analytics and Visualization |
| • Data Analyst – Skilledge ↗ | • MongoDB Atlas – MongoDB |