

Deep

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Education

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| Thapar Institute of Engineering & Technology, Patiala Master of Computer Applications (MCA) | Aug 2024 – May 2026 CGPA: 8.18 |
| Kurukshetra University, Kurukshetra Bachelor of Science (B.Sc.) | Aug 2021 – July 2024 Percentage: 64.2% |

Experience

Machine Learning Intern | Cognifyz Technology (Remote) — [GitHub Link](#)

- Executed three ML projects in the restaurant domain covering regression, recommendation, and classification with complete data preprocessing and model evaluation.
- Built a rating prediction model using Linear Regression and Decision Tree Regressor ($R^2 = 0.98$) and a cuisine-based recommender using one-hot encoding and Jaccard similarity.
- Implemented a cuisine classification model via Decision Tree Classifier, optimizing accuracy through encoding, normalization, and handling class imbalance.

Projects

NLP Text Summarization with MLOps | Python, Transformers, FastAPI, Docker, DVC, MLflow — [GitHub Link](#)

- Developed an end-to-end text summarization pipeline using the Pegasus Transformer to generate human-like summaries from long documents.
- Automated data ingestion, validation, model training, and experiment tracking with DVC and MLflow.
- Deployed the model as a FastAPI-based real-time summarization API, containerized with Docker for scalability and portability.

E-commerce Sales Analytics Dashboard | Power BI, MS SQL Server, DAX, Power Query — [GitHub Link](#)

- Built an interactive Power BI dashboard showing YTD Sales, Profit, Quantity, Profit Margin, YoY trends, segment/category performance, and state-wise sales insights .
- Integrated 100K+ records using MS SQL Server & Power Query, and did data modelling .
- Developed dynamic KPIs with trend lines, color-coded indicators (green/red), and created visuals such as Top/Bottom 5 products, regional sales, and shipping-type analysis.

End-to-End Medical AI Chatbot | Python, LangChain, Hugging Face, Pinecone, Flask — [GitHub Link](#)

- Built an AI medical chatbot using The Gale Encyclopedia of Medicine for accurate, context-driven health Q&A.
- Implemented a RAG pipeline with LangChain, Hugging Face embeddings, and Pinecone for semantic retrieval.
- Developed a Flask web app for real-time user interaction with secure API key handling.

Technical Skills

Programming: C++, Python, SQL

Tools & Platforms: VS Code, Jupyter, Git/GitHub, MySQL Workbench, Docker, FastAPI

Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Power BI

ML & NLP: Scikit-learn, Random Forest, Logistic/Linear Regression, KNN, NLTK

Core CS: OOP, Software Engineering, DBMS

Certificates

- **Kaggle** — Intro to Machine Learning — [Certificate Link](#)
- **Deloitte Australia (Forage)** — Data Analytics Job Simulation — [Certificate Link](#)
- **Tata (Forage)** — GenAI Data Analytics Job Simulation — [Certificate Link](#)