

## SNEHA DIPTI

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## PROFESSIONAL SUMMARY

Recent MCA graduate from BIT Mesra with expertise in Machine Learning, NLP, and Data Analytics. Skilled in Python, Java, SQL, and AI application development with internship and project experience. Passionate about building scalable, data-driven solutions for real-world challenges.

## EDUCATION

<b>BIRLA INSTITUTE OF TECHNOLOGY, MESRA</b> <i>Master of Computer Application ( CGPA: 8.36/10.0)</i>	Aug 2023 – May 2025
<b>BIRLA INSTITUTE OF TECHNOLOGY, MESRA</b> <i>Bachelor of Computer Application (CGPA: 8.50/10.0)</i>	July 2019 – July 2022
<b>KAIRALI SCHOOL, HEC TOWNSHIP, RANCHI</b> <i>Higher Secondary School (73.33%)</i>	April 2018 – April 2019
<b>BISHOP WESTCOTT GIRLS SCHOOL, DORANDA</b> <i>Secondary School (87.50%)</i>	April 2016 – April 2017

## EXPERIENCE

<b>Machine Learning Intern</b> <i>GUSTOVALLEY TECHNOVATIONS</i>	May 2024 – July 2024
<ul style="list-style-type: none"><li>Implemented and optimized machine learning models using Python, TensorFlow, Keras, and scikit-learn, improving accuracy and performance</li><li>Performed data preprocessing and feature engineering to enhance model efficiency and effectiveness</li></ul>	

## PROJECTS

<b>AI-Powered Question Answering System</b>	<i>Final Year MCA Project — BIT Mesra</i>
<ul style="list-style-type: none"><li>Developed an AI-based QA system using LangChain, Gemini LLM, FAISS, and HuggingFace embeddings</li><li>Implemented a RAG pipeline for semantic search and accurate answer generation from scraped educational content</li></ul>	
<b>T20 World Cup 2024 Score Predictor</b>	<i>Machine Learning Project</i>
<ul style="list-style-type: none"><li>Preprocessed T20 match data with Python and Pandas, performing feature engineering on ball-by-ball details</li><li>Built and compared ML models (Logistic Regression, Random Forest, XGBoost, LightGBM) and deployed predictions via Streamlit app</li></ul>	
<b>Language Modelling in Hindi</b>	<i>NLP Project</i>
<ul style="list-style-type: none"><li>Developed a Hindi next-word prediction model using LSTM/BiLSTM for improved contextual accuracy</li><li>Applied text preprocessing, tokenization, and embeddings to build a dataset for real-time word prediction</li></ul>	

## CERTIFICATIONS

Deloitte Data Analyst Job Simulation (Forage) <a href="#">🔗</a>	2025
Google IT Automation with Python (Coursera) <a href="#">🔗</a>	2024

## SKILLS

**Programming Languages:** Python, Java, C++, C  
**Databases:** SQL, DBMS  
**Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn  
**Tools & Platforms:** Git, Jupyter Notebook, Excel, PowerBI  
**Soft Skills:** Problem Solving, Data Analysis, Communication  
**Languages:** English (Fluent), Hindi (Native)