

NAYAN GUPTA

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Profile Summary

A passionate and highly motivated M.Tech graduate in Computer Science and Engineering, specializing in **Machine Learning and Artificial Intelligence**. Proficient in multiple programming languages and frameworks, with strong problem-solving skills and a keen interest in software development. Seeking a Software Engineer role where I can collaborate with a dynamic team to contribute effectively and grow as a professional

Education

M.Tech (Computer Science and Engineering) - (Current- 7.8 CPI) PDPM Indian Institute of Information Technology, Design Manufacturing (IIITDM), Jabalpur	2024 – Present
B.Tech (Information Technology) - 7.89 CGPA Rajasthan Technical University, Kota	2019 – 2023

Academic Projects

Image Caption Generator using Bi-LSTM • Developed an Image Caption Generator that combines a pre-trained CNN model(DenseNet) for feature extraction and Bi-LSTM for generating dynamic captions, enhancing the natural language generation process. • Achieved over 70% model accuracy by fine-tuning the CNN and Bi-LSTM architecture, improving the quality and relevance of captions. • Utilized a pre-trained CNN (DenseNet) for extracting high-level image features, while using Bi-LSTM to generate coherent, context-aware captions from image data. • Optimized model performance through careful tuning of hyperparameters and training strategies to improve caption generation.	January - 2025
Crop Yields - Machine Learning • Developed a Crop Yield Prediction system using machine learning, integrating data preprocessing, model training, and deployment. • Conducted EDA, train-test split, and evaluated multiple ML models to achieve accurate yield predictions. • Built a UI for real-time predictions and successfully deployed the model for practical agricultural applications.	November - 2024

Technical Skills

- **Data Analysis and Statistics:** NumPy, Pandas, Matplotlib, TensorFlow, Keras.
- **Tools and Utilities:** VSCode, Jupyter, Anaconda, Google-Colab, MySQL, Git, GitHub.
- **Programming:** Python, C++.
- **Skills:** Machine Learning, Deep Learning, Data Structures and Algorithms, Operating System(OS), DBMS, Computer Networks.
- **Soft-Skills:** Communication, Teamwork, Problem-solving, Adaptability Continuous Learning.

Position Of Responsibility

- **Teaching Assistant, DBMS Lab - (August 2024)**
Department of Computer Science and Engineering
 - Mentored 100+ students in DBMS, boosting their skills, confidence through guidance and support.