Nandan B Deshamukh

Mangalore, Karnataka

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OBJECTIVE

Computer Science and Engineering student with an interest in Artificial Intelligence, Machine Learning, and Web Development, seeking opportunities to build intelligent AI-powered web applications and enhance practical development skills.

EDUCATION

AJ Institute of Engineering & Technology, Mangalore   **2022 − 2026**
*B.E - Computer Science & Engineering - **CGPA - 8.1***   *Mangalore, Karnataka*

TECHNICAL SKILLS

Languages: Java, Python, SQL

Technologies: HTML, CSS, GitHub

Libraries & Tools: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow

Developer Tools: VS Code, Eclipse, Google Colab, MySQL

PROJECTS

Handwriting Digit Recognition | Python, TensorFlow   **2025**

- Developed Perceptron, ANN, and CNN models for handwritten digit recognition using the MNIST dataset.
- Achieved **99.16% validation accuracy** with the CNN model, improving performance by 8% over ANN and 17% over Perceptron.
- Demonstrated effective use of deep learning techniques to enhance model accuracy and reliability.

Multimodal PDF RAG Chatbot | Python, LangChain   **2025**

- Developed a chatbot that answers questions from PDFs by understanding both text and images using CLIP and LangChain.
- Built a full-stack web application using Flask and JavaScript for uploading PDFs and interacting with the chatbot.
- Integrated Google Gemini for generating accurate, context-aware multimodal responses.

Crop Recommendation System | Python, Scikit-learn   **2025 (Ongoing)**

- Developing a machine learning model to recommend suitable crops using soil nutrients (N, P, K), pH, temperature, humidity, and rainfall data.
- Trained initial models achieving an accuracy of **83%** on a 50,000-row Karnataka dataset, optimizing hyperparameters for improved predictions.

EXPERIENCE

Edunet Foundation – AI & Data Analytics Virtual Internship   **Apr − May 2025**

- Completed a 1-month virtual internship focused on Artificial Intelligence and Data Analytics under the Skills4Future program by AICTE and Shell India.
- Gained hands-on experience in data analysis, AI concepts, and practical analytics workflows.

CERTIFICATIONS

- Infosys Springboard – Basics of Python (Feb 2025)
- Oracle Cloud Infrastructure – AI Foundations Associate (2025)
- NPTEL – Programming in Java (Jul–Oct 2024)