

DIYA NATHWANI

Third-Year B. Tech Artificial Engineering Student

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PROFESSIONAL OVERVIEW

Artificial Intelligence Engineering student with hands-on experience in Machine Learning, Deep Learning, and Full Stack Development. Skilled in building and deploying AI-driven applications, including CNN-based medical imaging systems and NLP solutions. Proficient in Python and data-driven problem solving, with experience in real-time systems, model optimization, and scalable deployments. Passionate about developing impactful, real-world AI solutions.

EDUCATION

- **Bachelor of Technology (B. Tech) | Artificial Intelligence Engineering** **2023 – 2027 | CGPA: 7.38**
 - **HSC (State Board) – Smt. Vimla Dr Laxmi Narayan Soni Junior College** **2023 | 61.50**
 - **SSC (State Board) – J.N. Tata Parsi Girl's High School, Nagpur** **2021 | 79.60**
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PROJECTS

Crop Recommendation System

(Sep 2025 - Dec 2025)

- Developed a machine learning-based system to recommend suitable crops using soil parameters, weather conditions, and environmental data.
- Prepared and presented the project idea and technical approach during the **SIH First Round (PPT/Idea Presentation)**.
- Implemented Random Forest and Decision Tree models on agricultural datasets (5,000+ records), achieving **82% prediction accuracy** after feature selection and normalization using Pandas and Sci-kit-learn.

MediVision AI — Brain Tumor Classification Platform

(Mar 2026 – Apr 2026)

- Built a brain tumor detection system using CNN and VGG16 Transfer Learning achieving ~97% accuracy on 7,000+ MRI scans across 4 tumor classes.
- Integrated DCGAN for synthetic medical image generation and deployed a real-time Flask dashboard with Grad-CAM explainability visualizations.
- Deployed on Render with ML flow experiment tracking and GitHub Actions CI/CD pipeline.

AI Sentiment Analyzer — NLP-Based Text Classification System

(Feb 2026 – Mar 2026)

- Built a sentiment analysis model using NLP techniques to classify text into positive, negative, and neutral categories.
- Developed a web-based interface for real-time predictions with integrated backend deployment.
- Implemented data preprocessing and feature extraction to improve model performance and accuracy.

Netflix Data Dashboard — Data Visualization Project

(Feb 2026)

- Developed an interactive dashboard to analyze and visualize Netflix content trends using data cleaning, filtering, and dynamic visualizations.
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TECHNICAL SKILLS

- **Programming Languages:** Python, C, SQL, Data Structures & Algorithms (Beginner)
 - **AI & Data:** Machine Learning, Deep Learning, NLP, Generative AI
 - **Web Technologies:** HTML, CSS
 - **Tools:** Power BI, Canva, Git, GitHub, Render, VS Code
 - **Data & UI/UX:** Power BI, Tableau, Figma, Miro, Balsamiq
 - **Soft Skills:** Quick Learner, Management, Teamwork, Team Coordination
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EXPERIENCE

Artificial Intelligence Intern | Codec Technologies

(March – April 2026)

- Pursuing a 1-month AI internship covering Foundations of AI, Python for Data Handling, Machine Learning, Neural Networks, Deep Learning, NLP, and Reinforcement Learning.
 - Gaining hands-on experience in text processing, sentiment analysis, implementing NLP tasks using NLTK and SpaCy, and building Q-learning models.
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CERTIFICATIONS

- [CPP](#)(Completion of Cpp Training, Spoken Tutorial Project, IIT Bombay (8th Jan, 2025))
 - [PHP](#) (Completion of PHP and MySQL Training, EduPyramids, SINE, IIT Bombay (17th Nov, 2025))
 - [Python](#)(Completion of Python 3.4.3 Training, EduPyramids, SINE, IIT Bombay (27 Jan, 2025))
 - [TATA.pdf](#) GenAI Powered Data Analytics Job Simulation | TATA via Forage (March 2026)

 - [Gen-AI](#)(Oracle Certification – Generative AI (Oct 30 ,2025))
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ACHIEVEMENTS

- **AI Club Member** (2025 – Present)
- Developed a Crop Recommendation System, successfully cleared internal hackathon rounds, and represented college at the **Smart India Hackathon (SIH) – First Round** competing among teams from across India (2025)