

DIYA TAYAL

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Education

Madhav Institute of Technology and Sciences(MITS),Gwalior
B.Tech in Artificial Intelligence & Machine Learning

2022 - 2026
8.4/10 CGPA

Work Experience

Netlink Software Group America Inc (Lumenore: Netlink's Flagship AI product) **June 2025 – August 2025**
Python-AI/ML Intern *Bhopal, MP*

- Improved an Intent Classifier by refining prompts and implemented FastAPI middleware with comprehensive error handling for robust backend operations.
- Integrated and utilized Web Search APIs and Groq APIs to analyze global product sales data and extract actionable business insights
- Built AI agents using n8n and MCP servers to automate workflows and execute multi-step reasoning tasks.
- Conducted advanced competitor analytics through data scraping, prepared interactive Highcharts visualizations, and implemented Retrieval-Augmented Generation (RAG) to enhance data-driven decision-making.
- Performed data augmentation using Monte Carlo simulations and trained models with multiple machine learning algorithms; implemented live transcription using Whisper and applied diarization and emotion detection for enriched speech analytics.

CoreCard Software India Pvt. Ltd.
Software Engineer Intern

June 2024 – July 2024
Bhopal, MP

- Designed and implemented a responsive front-end using HTML, CSS, and React.js, improving user engagement by 30%. Learned few concepts of backend and RESTful APIs.
- Debugged and optimized UI components to enhance user experience and performance.
- Collaborated in designs reviews, providing constructive feedback on proposed solution for better user interactions.

Projects

Smart Resume Analyser using Natural Language Processing (NLP) [Demo](#)

- Boosted job-resume relevance by 35% through intelligent keyword extraction, automated resume optimization, and context-aware matching with scraped and API-fetched job listings.
- Improved resume quality by implementing NLP-powered grammar and spelling correction, ensuring ATS-friendly formatting and language consistency across user uploads.
- Enabled dynamic job discovery by integrating RapidAPI's Web Search API, followed by tailored cover letter generation using Google's Gemini API for personalized role-specific applications.

SmartCure: Health Assistance using Machine Learning [Demo](#)

- Developed an intelligent healthcare assistant using ML models, achieving 85% accuracy in disease prediction based on user symptoms.
- Delivered personalized health recommendations for medication, diet, exercise, and precautions.
- Integrated a mental health companion bot using LLMs for AI-driven emotional support and natural language interaction.

Personal Portfolio Website using React [Demo](#)

- Designed and developed an interactive 3D portfolio website using React.js and animations, featuring smooth animations and a modern, responsive design.
- The site effectively showcases my skills, projects, and creative capabilities through an engaging user experience.

Technical Skills

Machine Learning/Deep Learning/Data Science/Natural Language Processing

Languages: C++, Python, R, JavaScript, HTML, CSS

Libraries/Frameworks: TensorFlow, PyTorch, scikit-learn, spaCy, NumPy, Pandas, LangChain, React.js, Flask, Hugging Face, Gemini API, Streamlit, FastAPI

Tools: Git, GitHub, Jupyter Notebook, Google Colab, Visual Studio, MLFlow, DagsHub

Computer Science Fundamentals: Data Structures Algorithms, Object-Oriented Programming (OOPS), Operating Systems, DBMS, Computer Networks

Achievements

- Solved **400+** DSA problems on LeetCode and Coding Ninjas, demonstrating strong algorithmic thinking.
- Silver+Elite Badge – NPTEL Edge Computing (2025)
- Data Science and Machine Learning – Udemy (by Krish Naik)