

# Nitin Dhakad

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## EDUCATION

### NIIT University

Btech CSE, Specialization in Artificial Intelligence

Neemrana, Rajasthan

2020-2024

## EXPERIENCE

### AI/ML Intern (Certificate) — Genpact

July 2024 - December 2024

#### Optimizing Invoice-PO Matching using RLHF

- Improved Invoice-PO matching accuracy on LLaMA 2 7B using **RLHF**.
- Explored two approaches: **Vertex AI RLHF pipeline (GCP)** and **TRL library(Hugging Face)**.
- Employed **QLoRA** with 4-bit quantization for efficient model loading.
- Achieved **78.41%** accuracy, a **9.3%** increase over the SFT-tuned model, leveraging the TRL library.  
Technology: Python, Vertex AI, TRL.

#### SPARQL Query Automation with Agents

- Automated SPARQL query generation, execution, and optimization using **AutoGen**.
- Used multiple agents for query generation, execution, feedback, and refinement.
- Achieved **86%** accuracy with a **32-second** average response time, covering the full agent conversation in AutoGen.  
Technology: Python, Autogen.

#### Web App for SPARQL Automation

- Developed a full-stack web app with **React** and Tailwind CSS (frontend) and **FastAPI** (backend) for automating SPARQL query generation.
- Integrated a feature to upload .ttl files and ask questions, triggering the **AutoGen** agent pipeline.
- Demonstrated Agentic AI by showcasing agent conversations, final outcomes, and answers to solve complex problems.  
Technology: Python, Autogen, FastAPI, React, TailwindCSS, JavaScript.

## PROJECTS

### StoryGen: An interactive story generation web app (GitHub)

2024

- Architected an interactive, multi-path narrative using OpenAI GPT-3.5-turbo, enabling users to generate 500+ unique story outcomes based on chosen actions and influencing 90% of readers.
- Created a responsive frontend with additional functionalities using React and Tailwind CSS for a seamless user experience.
- Implemented backend functionality using **Express.js** and **Node.js**, managing routes and middleware.  
Technology: React, JavaScript, Node.js, OpenAI, Express.js, Tailwind CSS.

### Assist-Ace: Exam Assistance Blog (GitHub)

2023

- Developed a MERN web application enabling students to create blogs with images, formatting options and media links.
- Designed features including reading others blogs, commenting, ratings, and likes, promoting engagement and knowledge sharing.
- Established secure user authentication via **OAuth 2.0**.  
Technology: MongoDB, Express.js, React, Node.js, Google OAuth, CSS, JavaScript.

## SKILLS

**Languages:** Python, Java, JavaScript, C++, SQL, HTML/CSS

**Frameworks:** Node.js, Tailwind CSS, Express, Django, FastAPI, LangGraph, crewAI

**Developer Tools:** Github, Git, VS Code, Firebase, PyCharm, IntelliJ, Eclipse, GCP's Vertex AI

**Libraries:** pandas, NumPy, Matplotlib, NLTK, openCV, React, Autogen, Huggingface's TRL

## CERTIFICATES

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<b>Supervised Machine Learning: Regression and Classification</b> <i>Online Course-Stanford University</i>	2023
<b>React JS course</b> <i>Great Learning Academy</i>	2023
<b>PCAP: Programming Essentials in Python</b> <i>Provided by Cisco Networking Academy®in collaboration with OpenEDG Python Institute</i>	2022

## POSITION OF RESPONSIBILITY

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<b>Youth Empowerment Community Program Coordinator</b> <ul style="list-style-type: none"><li>• Oversaw a comprehensive program to provide educational support to underprivileged children, involving 90+ volunteer instructors.</li><li>• Developed a structured curriculum to meet the specific needs of the target audience.</li><li>• Ensured successful delivery of more than 100+ educational sessions, with 20+ live lectures, and a total of 80+ recorded sessions.</li></ul>	2022
<b>Senior Project Mentor</b> <ul style="list-style-type: none"><li>• Mentored a team of 12 freshmen on their first university project.</li><li>• Provided guidance on both technical and non-technical matters like electronics, Python, Arduino, cost management, and presentations skills.</li></ul>	2022

## EXTRACURRICULAR ACTIVITIES

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<b>Gaming</b> <ul style="list-style-type: none"><li>• Secured victory in the inter-batch CS-GO tournament hosted by GAMERS NU.</li></ul>	2022
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