

# Arun Singh Thakur

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## EDUCATION

**NIIT University ,**

B.tech , Computer Science

**Rajasthan,Ind**

2020-2024

## SKILLS

Data Science Fresher with Python & ML expertise (Scikit-learn, TensorFlow, Keras). Skilled in data visualization (NumPy, Pandas, Matplotlib) & NLP (Transformers, RAG and other LLM based applications ),Experience in building and deploying data pipelines using Apache Spark on Databricks ,Strong analytical & problem-solving skills.

## WORK EXPERIENCE

**Genpact**

Generative AI Intern

**Bangalore,Ind**

Jan 24-Current

- Developed and fine-tuned a lightweight language model (LLM) using **LORA** and **QLORA** , achieving a significant improvement in performance for specific client-defined tasks.
- Created a Retrieval-Augmented Generation (**RAG**) system utilizing the LLM for question-answering from documents.
- Developed a **Multimodal RAG** system to incorporate multimodal capabilities, including tables, text, and images. Evaluated the effectiveness of the multimodal RAG system.
- Performed data preparation and Exploratory Data Analysis (EDA) for the Shop Disney project.
- Fine-tuned various **BERT** models for aspect-based sentiment analysis, extracting sentiment related to different aspects of products.

## PROJECTS

### SALES FORECASTING

- Spearheaded a project to forecast weekly store sales using **ARIMA** model.
- Analyzed time-related and spatial features to understand their influence on sales.

### RESEARCH & DEVELOPMENT

- Contributed to the development of a **fenceless intruder detection** system using lasers and computer vision.
- Implemented and fine-tuned the **YOLO** model for real-time object detection and tracking.

## POSITION OF RESPONSIBILITY

**Google Developer Student Club – NIIT University**

- Technical Lead
- Artificial Intelligence Lead

Feb 2023 – Jan 2024

Sep 2022 – Feb 2023

## ACTIVITIES

**Centre for Innovation Incubation & Entrepreneurship (CIIE)**

- Runner up at pitch preneur

**Hult Prize NIIT University**

- Presented our idea of smart parking solutions