

# Gaurav Singh

AI/ML Developer

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#### WORK EXPERIENCE

# AI/ML Engineer MomentText

02/2021 - Present 3 years

Delhi - NCR, India

- Achievements/Tasks
- ELECTRIC GRID DEFECTS ANALYSIS
- Finetuned **Yolov8**, on drone captured zoomed in images, for either **detection** or **classification** of seven types of defects present on different components on the electric grid.
- **DOCUMENT LAYOUT ANALYSIS**
- Finetuned LayoutParser and TableTransformer on varying documents, to detect common elements along with table structure and further built a RAG pipeline using LLamaIndex, LangChain, OpenAl.
- STRUCTURED INFORMATION RETRIEVAL
- Finetuned LayoutLmv3 on documents of Bill of lading and Commercial Invoice to implement document processing which retrieves information from unstructured documents.
- TURBINE PATCHES SEGMENTATION
- Built Unet model to implement Image Segmentation of components from Radiothermal Images and computes relevant **statistics** based on the extracted temperature.

#### **Data Scientist**

E. Z. BioXcel Solutions Pvt. Ltd. 🛂

06/2020 - 11/2020 6 Months

Delhi - NCR, India

Skills:

- CLASSIFICATION PRODUCT CONTENT
- Created **Random Forest Model** which predicts variety of results intelligently based on training. It analyses linearity, consistency, suitable results on spectrum etc based on preferences. Worked on **data crawling** of products, approved by US FDA, from e-commerce websites like amazon.

# **EDUCATION**

# Bachelor's of Technology

H.M.R. Institute of Technology & Management, GGSIPU

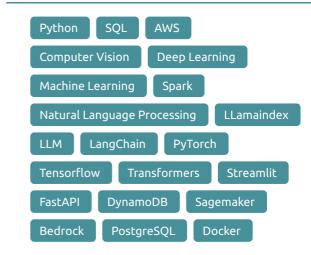
08/2017 - 07/2021

New Delhi, India

Branch:

- Information Technology
- Percentage: 74.6

## **SKILLS**



#### PERSONAL PROJECTS

#### **AUTOMATED PERSONALITY DETECTION**

Finetuned Phi-3-Mini on personality data to automate the process of asking questions from built up complex situations and analyzing answer to classify into OCEAN traits. Further, integrated with Langchain and deployed on Bedrock.

#### Medical Information Retrieval

After crawling data from medical websites, stored it into AWS DynamoDB as tables, further, using Streamlit, FastAPI to build the Frontend, Backend and deployed on **cyclic.sh** after using docker containerize the whole application.

## **CERTIFICATES**

HackerRank - Python 🗹

Hackerrank - SQL 🗹

Coursera - Deep Learning Specialization 🗹

Coursera - AWS Machine Learning 🗗

#### **INTERESTS**

**Table Tennis** 

Gaming