



Gaurav Singh

AI/ML Developer

gauravsingh.2799@gmail.com

7678658755

New Delhi, India

www.hackerrank.com/grabbysingh

linkedin.com/in/grabbysingh

www.techgig.com/pub/grabbysingh

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**, **OpenAI**.
- **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,
GGSIU

08/2017 - 07/2021

New Delhi, India

Branch:

- Information Technology
- Percentage: 74.6

SKILLS

Python

SQL

AWS

Computer Vision

Deep Learning

Machine Learning

Spark

Natural Language Processing

LLamaIndex

LLM

LangChain

PyTorch

Tensorflow

Transformers

Streamlit

FastAPI

DynamoDB

Sagemaker

Bedrock

PostgreSQL

Docker

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** to containerize the whole application.

CERTIFICATES

HackerRank - Python

Hackerrank - SQL

Coursera - Deep Learning Specialization

Coursera - AWS Machine Learning

INTERESTS

Table Tennis

Gaming