Wansh Singh

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BRIEF SUMMARY

A passionate data scientist with an aptitude for discovering insights from complicated information. Motivated by the idea of transforming figures into meaningful narratives. These include statistical analysis, along with working with diverse groups that devise solutions based on data across the firm.

EDUCATION

The LNM Institute of Information Technology **Aug 2021 - Present**
*B.tech - **CGPA - 5.81*** *Jaipur, Rajasthan*

Star International **2021**
*12th - PCM - **Percentage - 84.5%*** *Ranchi, Jharkhand*

MDS Senior Secondary School **2019**
*10th - **Percentage - 90.2%*** *Udaipur, Rajasthan*

TECHNICAL SKILLS

- Python
- C/C++
- MySQL
- Node.js
- TensorFlow
- Scikitlearn
- Git/GitHub
- Open CV
- Bash
- Linux
- Django
- AWS
- React
- Pytorch
- Numpy
- Pandas
- Seaborn
- Docker

EXPERIENCE

Data with D - *AI Researcher* **May 2023 - July 2023**

- Developed and fine-tuned deep learning models using PyTorch, TensorFlow, and OpenCV for enhanced generative outputs.
- Specialized in fine-tuning large language models (LLMs) such as OpenAI and OLama.
- Utilized Docker for containerization and streamlined deployment processes.
- Employed FFmpeg for efficient multimedia processing and colmap for 3D reconstruction.
- Managed and optimized cloud infrastructure using AWS services (S3, EC2).

PROJECTS

Human Posture Recognition **Jan 2024 - Feb 2024**

Tech Stack Used: Python, Tensorflow, Open CV , Pandas, Mediapipe

- Developed a machine learning model for recognizing human posture. Utilized OpenCV for image processing and TensorFlow for model training and inference.
- Implemented grayscale imaging instead of RGB to reduce data complexity and enhance processing efficiency..
- Used skeleton structure mapping to accurately identify and classify different human postures.
- Achieved a data accuracy of 94 percent using only three layers in the neural network.

NIRF Data Scrapper **Mar 2024 - Apr 2024**

Tech Stack Used: Python, BeautifulSoup, PDF plumber, Pytesseract, Open CV

- Implemented BeautifulSoup for efficient web scraping and data parsing from HTML content.
- Leveraged OpenCV and Tesseract OCR to accurately extract text from complex PDF reports and images.
- Integrated PDFPlumber for precise text extraction from structured and unstructured PDF documents.

Microsoft Engage 2021: Car price prediction model **Sept 2023 - Dec 2023**

Tech Stack Used: Python, TensorFlow, NumPy, Matplotlib, Open CV

- The following project is a machine learning project which uses various machine learning regression models in order to predict a show-room price based on their specifications..
- Python libraries used in this are numpy and pandas (for data preprocessing), scikit-learn, and matplotlib.

Extra Curricular

- GDSC LNMIIT AI/ML Domain Lead.