



# UMANG PURWAR

## PROFILE

I am skilled in Python, data analysis, and artificial intelligence. I have experience in computer vision, machine learning, and NLP. I also have practical knowledge of AWS, Power BI, and deep learning frameworks.

## CONTACT

PHONE NUMBER: 9795033653

[LINKEDIN](#)

[EMAIL](#)

[GITHUB](#)

## CERTIFICATIONS

AI and ML Nano Degree-PreplInsta-  
February 2023

Data Science with AI in Python  
Programming-360digitiMG- September  
2022

Data Science, Nasscom - Issued on May  
PowerBI- PreplInsta- February 2023  
Python Fundamentals, Nasscom-Issued on  
May

## EDUCATION

### BACHELOR OF TECHNOLOGY

Dr. Ambedkar institute of technology for  
handicapped | Kanpur, India | 2018-2022

## ACHIEVEMENTS

Improving Construction Efficiency with  
Artificial Intelligence:

Automated Bar Bending Schedule  
Generation,

TIJER - INTERNATIONAL RESEARCH JOURNAL

## HOBBIES

Watching Netflix, Playing Badminton,  
Travelling, Trekking

## WORK EXPERIENCE

### DATA SCIENCE INTERN

| INNODATATICS | HYDERABAD, INDIA | APRIL/2023-PRESENT

- Led data cleaning and feature engineering initiatives, driving the optimization of marketing strategies and elevating conversion rates by 25%.
- Executed NLP sentiment analysis, elevating positive sentiment scores by 20%.
- Engineered and deployed advanced image analysis and OCR system, achieving an 80%-time savings and a 90% reduction in manual errors for TMT rod counting using open-source models and machine learning APIs.
- Working in Python, CNN, YOLO, and AWS (ec2) for training.

## PROJECTS

### Domain Chatbot, Peerlist Hackathon

Your AI Assistant: Seamlessly Extracting Insights from URLs, PDFs, and CSVs with Lamma 2

**Skills:** NLU | LLM | Deep Learning | TensorFlow | NLP | Transfer Learning | FAISS

### BAR-BENDING-SCHEDULING, Innodatatics

Streamlining construction, automating data extraction, developing image analysis OCR system, saving time, improving accuracy, and enhancing efficiency.

**Skills:** Python programming | CNN | Computer Vision | YOLO | OCR | Image processing techniques (padding, contour detection, etc.) | AWS deployment.

### LangChain Data Loaders for FAISS Vector DatabaseLangChain Data Loaders for FAISS Vector Database, [Link](#)

A comprehensive solution for efficiently loading diverse data types into FAISS Vector databases. This repository contains specialized loaders for handling CSV, URL, YouTube transcript, Excel, and PDF data. Each loader is housed in a separate repository for modularity and easy integration.

**Skills:** Natural Language Processing (NLP) | Large Language Models (LLM) | Python (Programming Language) | Generative AI | Artificial Intelligence (AI)

## KEY SKILLS AND CHARACTERISTICS

- **Technical Skills:** MLops, Artificial Intelligence, Machine Learning, Computer Vision, Web scrapping, NLP, Large Language model, Data Analysis, Data Visualization, Neural Networks.
- **Familiar Tech stack:** Python, SQL, MS EXCEL, AWS, PowerBI, TensorFlow, Keras, PyTorch, NumPy, Pandas, Scikit-learn, OpenCV, statsmodels