

UMANG PURWAR

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Applying Python for advanced data analysis and AI, expertise includes computer vision, machine learning, delving into NLP, navigating AWS, utilizing Power BI, and adeptly employing deep learning frameworks.

SKILLS

- **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

EXPERIENCE

JR. DATA SCIENTIST | INNODATATICS | HYDERABAD, INDIA | DEC/2023- PRESENT

- Leveraged my expertise in Python, SQL, and MS Excel to develop custom AI models for analyzing pharmaceutical sales data at Innodatatics. Identified trends, customer preferences, and areas for sales optimization, achieving a 20% increase in model efficiency through strategic cloud implementations using AWS.
- Applied my skills in PowerBI and sales analytics to contribute to the development of a dynamic dashboard tracking TMT rods sales across India. The dashboard featured key metrics, client-wise sales, geographical filters, and diverse chart representation.
- Utilized my proficiency in NLU, LLM, Deep Learning, TensorFlow, NLP, Transfer Learning, FIASS, NLTK, and Spacy to develop a domain chatbot, Your AI Assistant, capable of seamlessly extracting data from URLs, PDFs, and CSVs. Integrated Open source Llama 2 and Mistral AI model for creating the chatbot.
- Streamlined construction processes at Innodatatics by automating data extraction and developing an image analysis OCR system for bar-bending scheduling. My skills in Python programming, CNN, Computer Vision, YOLO, OCR, and image processing techniques were instrumental in saving time, improving accuracy, and enhancing efficiency, with AWS deployment.
- Documented and referred to project-related content, including requirements, project flow, and expected results.
- **Stack used:** Python, SQL, MS Excel, PowerBI, Numpy, Pandas, Seaborn, Matplotlib, TensorFlow, Sentence Transformers, spaCy, NLTK, AWS, Agile Methodologies, Github.

DATA SCIENCE INTERN | INNODATATICS | HYDERABAD, INDIA | APRIL/2023- DEC/2023

- Developed custom AI models to address business needs, achieving a 20% increase in model efficiency through strategic cloud implementations using AWS EC2.
- Implemented AWS Auto Scaling groups to provide optimal scaling for the ML models
- Contributed in building a unique AI model project which uses ML and NLP techniques like Logistic Regression, Tokenization achieved using Spacy, BERT tokenizer as well as NLTK, revolutionizing business solutions and driving innovation within the organization.
- Enhanced AI algorithms, using feature engineering techniques like feature selection, encoding and hyper-parameter tuning like grid search to achieve 5% increase in accuracy
- Collaborated in with different teams in stand-ups, ensuring communication and delivering high quality results on time.
- Documented and referred project-related content like the requirements needed, the flow of the project and what results to expect using Confluence
- **Stack used:** Numpy, Pandas, Seaborn, Matplotlib, Tensorflow, Sentence Transformers, spaCy, NLTK, AWS EC2, Agile Methodologies, Github.

EDUCATION

BACHELOR OF TECHNOLOGY

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

PUBLICATIONS

Improving Construction Efficiency with Artificial Intelligence: Automated Bar Bending Schedule Generation,
TIJER - INTERNATIONAL RESEARCH JOURNAL

CERTIFICATIONS

- [AI and ML Nano Degree-PrepInsta- February 2023](#)
- [Data Science with AI in Python Programming-360digiTMG- September 2022](#)
- [Data Science, Nasscom - Issued on May](#)
- [PowerBI- PrepInsta- February 2023](#)
- [Python Fundamentals, Nasscom-Issued on May](#)

HOBBIES

Watching Netflix, Playing Badminton, Travelling, Trekking.

LANGUAGES

Hindi, English