Contact

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Woxsen University, Telangana

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Technical Skills

- Python (Pandas, Numpy,Scikit-learn)
- ETL & Data Processing
- Machine Learning
- Time-series Analysis
- Deep Learning: PyTorch, Tensorflow, OpenCV
- Data Analytics and Visualization (matplotlib, seaborn)
- NLP

Tools

- MySQL
- Excel

Certifications

- 2023-01 | Python for Data Science - IBM
- 2023-03| Data Analysis with Python 2023-03 | Data Visualization with Python
- 2023-03 | AI For Everyone 2023-07 | Machine Learning with Python (with Honors)
- 2023-08 |Introduction to Deep Learning & Neural Networks with Keras

Anushka Padala

B.Tech - Artificial Intelligence and Data Science

Synopsis

Determined student with a deep passion for data science and artificial intelligence. Strong foundation in programming, machine learning, and analytical problem-solving. Skilled at extracting meaningful insights from data to drive innovation and solve complex challenges. Continuously exploring emerging technologies to stay ahead in the evolving AI landscape. Eager to contribute to cutting-edge projects that create real-world impact.

Academics

Woxsen University | Hyderabad

2021 - 2025 **| B.Tech - Artificial Intelligence and Data Science**

CGPA: 3.11/4.0

Internships

Jan-2024 - June-2024

Greenko Group | Hyderabad

R&D Intern, Data Science Department

Energy Market Forecasting:

- Developed predictive models using regression and time-series analysis on IEX data.
- Optimized model accuracy through hyperparameter tuning.
- Contributed to data-driven renewable energy strategies.

Projects

Optimizing Urban Mobility: Advancing Traffic Prediction and Transportation Analytics in Complex Networks (conference paper submitted)

- Extracted and analyzed traffic patterns from Safe City camera feeds using computer vision techniques (YOLOv8, OpenCV) to classify vehicles and track movements.
- Developed a centroid-based tracker to maintain vehicle continuity across frames, improving tracking accuracy.
- Applied time-series forecasting models (Exponential Smoothing, ARIMA) to predict short-term traffic flow trends, aiding in real-time traffic management and congestion reduction.

NLP-based AI-Powered Chatbot

- Developed a university chatbot using the Rasa framework for conversational AI.
- Implemented the DIET classifier to enhance model accuracy on custom datasets.
- Adapted the chatbot to specific domains and multiple languages for improved user interaction.

Zero shot Object Detection Using Textual Description

- Developed a model integrating CLIP with YOLO to perform zero-shot object detection.
- The system recognizes objects using text descriptions, enabling a natural language interface for object detection tasks without requiring prior training on specific classes.