NANCY DIANA GUDAVALLI

DATA SCIENTIST

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PROFESSIONAL EXPERIENCE

AI Research Intern, CISO Global **Mar 2025 - Present**

- Identified current AI applications within the organization and collaborated with C-level executives, product managers and key stakeholders to map out a strategic AI roadmap.
- Proposed new AI use cases and opportunities to enhance product capabilities and operational efficiency.
- Currently developing prototypes for cybersecurity applications, including threat detection and phishing detection, leveraging Large Language Models (LLMs) and Graph Neural Networks (GNNs).

AI Research Intern, Clemengers LLC **Nov 2022 - Nov 2023**

- While working with the executives to determine their objectives, I devised a solution roadmap that included developing an AI chatbot that prompts students with questions to help them prepare for university interviews.
- Developed facial emotional analysis models, speech-to-text recognition, and speech emotion detection models using TensorFlow, Keras, computer vision, and scikit learn libraries.
- Experienced in the use of optimization techniques & project management methodologies in real-world scenarios.

Business Analyst, Mindtree Ltd **Jun 2021 - Oct 2022**

- Streamlined the minimum order quantity for store visits by factoring in inventory turnover rates and sales data. This approach ensured that sellers only delivered the necessary stock levels, reducing overall company expenses while maintaining efficient product flow.
- Implemented K-means clustering in python to segment regions based on area-specific data, enabling tailored product recommendations for each cluster.
- Implemented similarity assessment between outlets to identify and reintroduce products with lost demand, boosting market reach and revenue.
- Developed region-specific product recommendations for stores using deep neural networks, enhancing targeted sales strategies.

SKILLS

Programming Languages:
Python, SQL

Machine Learning & AI:
Decision Trees, Neural Networks,
Transformers (GPT, BERT),
Convolutional Neural Networks
(CNN), Generative AI,
Retrieval-
Augmented Generation
(RAG)

NLP & LLM:
LangChain, LangGraph

Deep Learning Frameworks:
TensorFlow, PyTorch,
Hugging Face

AI Design & Implementation:
AI agent architecture
LLM system workflows
Prompt engineering
Multi-agent design
Safety & alignment strategies

Data Visualization:
Tableau, Matplotlib, Seaborn

Computer Vision:
OpenCV, MediaPipe,
OpenPose

Cloud Platforms:
AWS

Statistics:
Business Statistics,
Probability
Distributions

EDUCATION

Certificate in Artificial Intelligence & Machine Learning — **Aug 2024 - May 2025**
Chandler & Gilbert Community College, Arizona

Post Graduate Diploma in Business Analytics — **Nov 2019 - Oct 2020**
International Institute of Digital Technologies, Tirupati

Masters in Business Administration — **June 2018 - May 2020**
Dr. L. Bullayya College, Visakhapatnam

PROJECTS

AI Content Creation & Thought Leadership

LinkedIn – Ongoing

- Publish educational content on AI trends, safety (e.g., hallucinations, prompt injection), and design implementation.
- Write articles and create carousels to simplify complex topics like LLM alignment and AI agent workflows.
- Leverage GPT tools and design platforms to streamline research, writing, and publishing.

Wave to Scroll

Developed a real-time, gesture-controlled scrolling system using Python and OpenCV. Implemented hand tracking with contour detection to recognize up/down gestures and map them to keyboard scroll actions, enabling seamless, touch-free page navigation.

Capstone Project - AI-Based Pose Estimation and Exercise Trainer

Developed a real-time AI system to assess exercise form and provide immediate feedback using pose estimation. Leveraged MediaPipe and OpenCV to extract body landmarks and calculate joint angles, enabling the detection of incorrect posture during workouts.