APPALA NITHIN

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EXECUTIVE SUMMARY

Data Science graduate skilled in designing, optimizing, and deploying AI/ML solutions, specializing in NLP & Generative AI. Strong in ethical AI, automation, and collaboration to drive real-world impact

EDUCATION

B.Tech in Data Science, Holy Mary Institute of Technology and Science, Hyderabad   **Aug 2022 - Expected May 2025**
CGPA: 75% equivalent to 7.5/10
Relevant Coursework: Python, ML,DL, NLP, DBMS, Data Structures&Algorithms, AI

Full-Stack Data Science & Generative AI, Naresh I Technologies   **Sep 2024 - Mar 2025**
Completed a 6-month Professional Training on Python, ML, DL, NLP, Gen-AI, and SQL with hands-on AI deployments.
Increased productivity by 30% through automation and intelligent insights

TOOLS AND TECHNOLOGIES

Programming Languages: SQL, Python (Pandas, NumPy)
ML DL Techniques: Supervised (Regression, Classification), Unsupervised (Clustering), Scikit-learn, CNNs, RNNs, LSTMs, GANs, Transfer Learning, Deep RL, Autoencoders, NLP (Text Analytics, Sentiment Analysis, Text Generation)
Machine Learning & Deep Learning: TensorFlow, PyTorch, Hugging Face Transformers, YOLO, Mediapipe, OpenCV
AI & Generative AI: GPT-3/4, BERT, T5, RAG, LLM Fine-tuning, Stable Diffusion, LangChain, AutoGen, BabyAGI, Crew AI, Mistral, Ollama, PhiData
AI Automation & AutoML: Groq, Gemma, OpenAI, DeepSeek, Serper AI, N8N
MLOps & CI/CD: MLflow, GitHub Actions, Model Deployment
Web Cloud: Flask, Streamlit, Gradio, Azure
Databases: MySQL, PostgreSQL, SQL Server
Dev Tools: Jupyter, Google Colab, GitHub, Git, VS Code, PyCharm
Data Visualization: Power BI, Tableau, Matplotlib, Seaborn, Plotly, Dash
Soft Skills: Problem-Solving, Teamwork, Communication, Critical Thinking, Business Analytics, Adaptability

EXPERIENCE

Innomatics Research Labs | Data Analytics & GenAI Intern | Remote   **Sep 2024 - Dec 2024**
- Designed and deployed AI/ML solutions, managing data pipelines and models on Azure for real-time use.
- Optimized YOLO-based models, increasing accuracy by 20% and cutting inference time by 30%.
- Built and deployed scalable Generative AI solutions (RAG Architecture), increasing operational productivity by 15%.
- Collaborated with cross-functional teams to design AI/ML architectures and streamline cloud-based data workflows.
- Deployed a cloud-based real-time AI dashboard on Streamlit, enhancing decision-making efficiency by 35%.
- Earned Letter of Recommendation for AI-driven research contributions.

PROJECTS

AI-Powered FAQ Student Assistance Chatbot (Academic Project)   **Feb 2025 - Apr 2025**
- Developed chatbot using VectorDB, FAISS, RAG, reducing student admission queries by 50%
- Integrated Gemini, Custom Search API, BERT, NLP, LangChain, cutting query resolution time by 35%

AI-Powered Automated EDA and Visualization with OpenAI GPT-4   **Feb 2025 - Mar 2025**
- Automated EDA using Gradio, SHAP, and LIME, cutting manual effort by 50%.
- Automated correlation analysis and report generation, cutting data processing time and accelerating insights by 45%

Real-Time Full-Body Movement Tracking with AI for Industry Applications   **Jan 2024 - Feb 2024**
- Built a Full Body Tracking System with MediaPipe, YOLOv5, and deployed on Azure for real-time pose recognition.
- Optimized model inference by 15% using CNN and Python, enhancing real-time processing.

ACHIEVEMENTS

Certifications: Advanced Data Analytics & AI Internship, Full Stack Data Science & Generative AI **Sep 2024 - Mar 2025**
Research & Contributions: Contributed to DL AI Automation and computer vision research in open-source projects.
Led a team of 5 in delivering an academic AI project that improved decision-making by 40% managed end-to-end process