

# MANIKANTA CHELAMALLA

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## PROFESSIONAL SUMMARY

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AI-Driven Data Scientist & Machine Learning Engineer skilled in designing, training, and deploying predictive models and generative AI solutions. Proficient in deep learning, NLP, LLM applications, and MLOps workflows. Experienced in leveraging AI to solve real-world challenges through scalable, production-ready solutions.

## SKILLS

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<b>AI &amp; ML Frameworks:</b>	TensorFlow, PyTorch, Scikit-learn, XGBoost, Transformers, Hugging Face
<b>Generative AI &amp; NLP:</b>	OpenAI API, LangChain, Prompt Engineering, BERT, GPT fine-tuning, spaCy
<b>Computer Vision:</b>	OpenCV, CNNs, YOLO (Basics)
<b>Data Tools:</b>	Python, SQL, Pandas, NumPy, Power BI, Tableau
<b>MLOps &amp; Deployment:</b>	Flask, FastAPI, Streamlit, Docker, MLflow (Basics), AWS SageMaker (Basics)
<b>Databases:</b>	MySQL

## EXPERIENCE

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**Data Specialist (Virtual Internship)** – Forage (Accenture, Quantum) December 2024  
Conducted uplift tests & customer segmentation using Python, SQL & ML models.  
-Built AI-driven dashboards to monitor customer engagement KPIs.

## PROJECTS

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**Generative AI Chatbot for Data Insights (AI Project)**  
-Built an LLM-powered chatbot using LangChain & OpenAI API to answer natural language queries on structured datasets.  
-Integrated retrieval-augmented generation (RAG) for domain-specific responses with FAISS vector DB.  
-Deployed via Streamlit & Docker for real-time usage.

**AI-Powered Nutrition Analyzer (Major Project)**  
-Developed an AI tool recommending personalized diet plans using ML models & NLP.  
-Backend: Python (Flask), XGBoost, SQL; Frontend: Responsive UI.  
-Integrated natural language queries for diet recommendations.

**Trip-Based Modeling of Fuel Consumption (ML Project)**  
- Processed 500,000+ trip records, trained XGBoost models to predict fuel usage with 20% improved accuracy.  
-Suggested route optimizations reducing fuel costs by 10%.

## EDUCATION

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<b>Bachelor of Computer Science</b> , Vaagdevi Engineering college	2021 - 2025
<b>Intermediate</b> , Sai Shivani Junior college	2019 - 2021
<b>Schooling</b> , SPR School of Excellence	2019

## CERTIFICATIONS

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- Data Analytics Internship – Forage (Accenture, Quantum)  
- Career Essentials in Data Analysis – Microsoft  
- Practical GitHub Actions – LinkedIn Learning

## EXTRA-CURRICULAR ACTIVITIES

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- Open-source contributions on GitHub.  
- Personal AI & data projects showcased on [GitHub](#).