

Yogesh Thakkala

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Professional Experience

Medical Inventory Optimisation

Hyderabad, India

Data scientist Intern (Innodatatics.ai)

January 2023-April 2023

- Spearheaded the application of advanced data science methodologies, from ARIMA to LSTM, for medical inventory optimization. Utilized Python to code and implement these methodologies, resulting in an 8% reduction in MAPE and significantly improving stock availability and cost efficiency.
- Integrated Random Forest and AdaBoost algorithms into existing forecasted models, leveraging Python coding to achieve a remarkable 92% accuracy boost, even for volatile demand patterns. This strategic enhancement led to a 20-30% revenue increase while maintaining zero bounce.
- Developed automated data pipelines and predictive models using Python, effectively reducing inventory holding costs by 15%. The automation ensured timely availability of critical medical supplies, thereby enhancing cost-efficiency and operational effectiveness.
- Spearheaded the implementation of an advanced inventory tracking system, leveraging Python-based data analytics to streamline procurement and prevent stockouts. This initiative resulted in a 15% reduction in inventory holding costs and a 20% increase in on-time order fulfillment.

Egg Segmentation

Hyderabad, India

Data Scientist Intern (Innodatatics.ai)

April 2023 - July 2023

- Engineered and implemented an innovative egg segmentation tool using Python, OpenCV, and Deep Learning, showcasing strong coding skills. This tool revolutionized egg segmentation processes, reducing manual labor by 40% and elevating quality control standards in the poultry industry.
- Expanded the project's scope by introducing a crack detection algorithm, coded in Python, which identified and flagged cracked eggs. This addition further optimized inventory management and quality assurance in the poultry industry.
- Significantly reduced labor costs and processing time through Python-coded solutions, while simultaneously enhancing efficiency in egg grading. The outcome was substantial cost savings and increased productivity in the poultry industry.

Healthcare ChatBot

Hyderabad, India

Python Developer Intern (CallHealth Services)

Nov 2023 - Present

- Developed and implemented a robust Rasa Chatbot tailored for a Healthcare Organization, incorporating cutting-edge Natural Language Processing (NLP), Natural Language Understanding (NLU), and Named Entity Recognition (NER) techniques. Utilized Python as the primary programming language to build and optimize the chatbot.
- Integrated Rasa Forms seamlessly into the conversational flow, creating an efficient interaction pattern between the bot and users for insurance-related inquiries. Implemented a secure data storage mechanism using SQL Lite, ensuring compliance with data privacy regulations and facilitating future data retrieval and analysis.
- Applied advanced Named Entity Extraction methods for precise Entity Recognition, enhancing the chatbot's ability to understand and respond to user queries accurately. This played a crucial role in the overall effectiveness of the healthcare-oriented conversations.
- Implemented a WhatsApp chat integration using Twilio, enabling users to easily engage with the chatbot and inquire about their healthcare needs through the popular messaging platform. This integration showcased adaptability in leveraging diverse communication channels for user convenience.

Personal Projects

RECOMMENDATION ENGINE

- Spearheaded the end-to-end creation and deployment of a movie recommendation system using the Flask framework.
- Led a cross-functional team resulting in a 25% increase in recommendation accuracy compared to baseline models.
- Demonstrated expertise in Python, collaborative filtering, and Flask, resulting in a 40% reduction in system development time.
- Managed the entire project lifecycle, including data preprocessing, model training, and front-end development.

SENTIMENT ANALYSIS

- Orchestrated an end-to-end sentiment analysis project, securing over 10,000 data points through Python and Beautiful Soup.
- Developed sentiment analysis models with a robust 92% accuracy rate, optimizing NLP techniques for a 35% reduction in training time.
- Enhanced decision-making with immediate sentiment trends, bypassing the need for Flask or deployment.

Gamification Project

- Spearheaded the development and implementation of a Gamification system, leveraging RFM Analysis (Recency, Frequency, Monetary) to categorize and recognize customers based on their engagement patterns.
- Engineered a robust badge assignment system that awarded badges to customers in accordance with their RFM values. Points were strategically assigned as per company requirements, contributing to enhanced customer satisfaction and loyalty.
- Implemented RFM Analysis to categorize customers, providing insights into their behavior and facilitating targeted engagement strategies. This analytical approach resulted in a personalized and rewarding experience for customers.
- Integrated a point-based reward system to acknowledge and incentivize customer loyalty. The system not only strengthened customer trust but also increased customer retention by offering meaningful rewards tailored to individual engagement levels.
- Demonstrated a keen understanding of customer relationship management by developing a gamification solution that effectively engaged customers, encouraging long-lasting relationships and fostering a positive perception of the organization.

Certifications

- **IBM PYTHON FOR DATA SCIENCE** - Certification in Python programming for data science from IBM. **March - 2024**
- **Participated in the AWS CLOUD MASTERCLASS** - Discovery Day by Ethnus, showcasing AWS cloud expertise through hands-on image discovery using AWS Cloud technology. **October - 2022**
- **STATISTICS AND TABLEAU COURSES BY 360 DIGITMG** - Certification in statistics and Tableau data visualization tool. **January 2023**
- **DATA SCIENCE MASTER COURSE by 360DigiTMG** - Certification highlighting mastery in data science. **March - 2023**

EDUCATION

- **Degree:** Bachelor of Pharmacy
University: Jawaharlal Institute of Technological Sciences Hyderabad
College: Venkateshwara Institute of Pharmaceutical sciences

2017 - 2022

ADDITIONAL

Technical Skills:

- AWS Services : S3, Glue, Athena, Redshift, Crawler, ETL, Redshift Integration
- Proficient in Python, HTML/CSS, NumPy, Pandas, Scikit-Learn, Tensor Flow, OpenCV
- Experience with machine learning models such as gradient boosting, SVM, random forest, clustering, KNN, etc
- Statistical modeling and mathematical modeling
- Skilled in SQL, PostgreSQL, MySQL
- Knowledge of deep learning models and frameworks
- Knowledge of cloud computing infrastructures (AWS)
- Tableau, Power BI

Soft Skills:

- Team Collaboration
- Quick Learner
- Analytical Skills
- Problem-Solving Skills
- Communication Skills (Written and Oral)

Languages: Fluent in English, Hindi, Telugu; Conversational Proficiency in Marathi