

Suryatej H M

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EDUCATION

Master of Science: Data Science, University at Buffalo, The State University of New York
Bachelor of Engineering: Mechanical Engineering, KLE Technological University, India

Dec'23 (Expected)
Aug'20

SKILLS & TOOLS

Languages: Python (NumPy, Pandas, Scikit-learn, Matplotlib, PyTorch, SparkML, Keras), SQL, R.

Databases: MySQL, PostgreSQL, Oracle, NoSQL(MongoDB).

Tools: Tableau, PowerBI, Microsoft Azure, AWS, TensorFlow, PyTorch, LangChain, MATLAB, GitHub, Jira, MS Office.

Skills: Causal Inference, Quantitative analysis, A/B Testing, Data Warehousing, Data Mining, Time Series forecasting, Exploratory Data Analysis (EDA), NLP, Regression modeling, Data Visualization, CNN/RNN, Boosting Methods, Agile.

WORK EXPERIENCE

Associate Data Scientist, TheoremLabs.io, USA

Sep'23 – Present

- Engineered and launched a financial chatbot leveraging Llama 2 70b LLM and LangChain 70B models, seamlessly integrated on Streamlit, achieving heightened efficiency and tailored user interactions.
- Enhanced chatbot performance by 20% through parameter optimization, leading to better conversational quality and user experience.
- Spearheaded a 30% enhancement in quantitative research using Statistics and Data Science expertise; championed advanced analysis techniques and amplified data-driven decision-making by 25%.

Data Scientist, Cognovative Technologies and Solutions Pvt. Ltd., India

Mar'21 – June'22

- Championed the creation of a cutting-edge Machine Learning-driven Grain Quality Analyzer System, delivering an exceptional 95% accuracy rate to underscore Data Science proficiency.
- Exemplified robust project management capabilities by accelerating project completion by three weeks, yielding a 10% budgetary reduction and optimizing operational efficiency by 30%.
- Drove a 15% reduction in maintenance costs through data-driven insights, showcasing expertise in delivering cost-effective solutions as a Data Scientist.

Operations Research Analyst, Rayalaseema Concrete Sleepers Pvt. Ltd., India

Aug'20 – Feb'21

- Successfully optimized a concrete sleeper production line, achieving a 15% increase in output and a 10% cost reduction, highlighting quantitative expertise in process enhancement and cost management.
- Developed persuasive pitch decks leading to 20% revenue growth while efficiently managing the database with a 30% reduction in discrepancies and a 25% faster retrieval rate. Additionally, I prepared precise quarterly financial reports, resulting in a 15% increase in investor participation and additional funding, showcasing proficiency in Financial analysis and reporting.

PROJECTS

Prediction of Secondary Insurance Purchase:

- Utilized the Random Forest Classifier to attain an AUC of 0.9498, an F-1 score of 87.62%, and 87.0% Test Accuracy in predicting secondary insurance interest, potentially driving a substantial increase in India's current 3.17% insurance penetration.

Reinforcement Learning agent:

- Crafted a lawnmower-inspired Grid-World using OpenAI Gym guidelines; trained RL agents with SARSA and Q-Learning, achieving a 300-point average reward and 92% policy evaluation precision.

Supply Chain Logistic Analysis:

- SQL and Python partitioned DataCo Global's supply chain dataset, established primary and foreign keys, ensured BCNF compliance, streamlined database efficiency, eliminated data redundancy, and facilitated in-depth supply chain analysis. The project aimed to optimize customer satisfaction and operational processes through PostgreSQL for data transformation and normalization.

CERTIFICATIONS & INVOLVEMENT

DP 100: Azure Data Scientist Associate Professional Certificate.

Tableau Certified: Data Analyst.

IBM Data Science: Professional Certificate.

Young Professional Member: United Nations Association(USA).

Mentor: Downtown Toastmasters Club.

Volunteer: Open Data Science Conference, AI conference.