

SAHANA GIRISH

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EDUCATION

University of Illinois Urbana-Champaign

Master of Science in Information Management (MSIM)

August 2023 - May 2025

4.00/4.00 GPA

Visvesvaraya Technological University

Bachelor of Engineering in Electronics and Communication Engineering

August 2017 - July 2021

3.64/4.00 GPA

SKILLS

Languages: Python, SQL, R, MATLAB

Libraries: Flask, Pandas, TensorFlow, Scikit-Learn, PyTorch, Keras, OpenCV, Requests, NumPy, Matplotlib, SciPy, Seaborn

Technologies: AWS (SageMaker, Lambda, Data Lake, ECR, S3, Glue), Azure (ML, Databricks, Data Factory), GCP, MLflow

Others: Git, Docker, Tableau, Power BI, Qlik, Jupyter, Spark, PyCharm, Hadoop, Evernote, Airflow, Agile, Jira, MS Suite

WORK EXPERIENCE

Graduate Associate – Grainger College of Engineering (UIUC)

August 2023 - May 2024, January 2025 - Present

- Optimize data processing and track supply chain issues by overseeing research order placement, tracking, and management while maintaining and updating the department's facilities, HR, and front office databases and dashboards

Data Science Intern - Werfen (R&D)

August 2024 - December 2024

- Applied statistical curve fitting techniques to digitize 3B+ instrument time series data to support product feature development
- Formulated a scalable flagging strategy and threshold analysis to handle reported false positives, thereby reducing it by 96%
- Partnered with product managers in analyzing sales trends, UX and correlations, facilitating data-informed decisions
- Delivered customized datasets and enhanced data pipelines through complex SQL queries, resulting in 62.85% faster runtime

Data Science Intern - OSF Healthcare (Advanced Analytics)

May 2024 - August 2024

- Forecasted cardiac abnormalities with 88% sensitivity by implementing dual-detector LSTM and CNN time-series models
- Designed automated testing, validation and feedback loops using BERT and RLHF GenAI systems to monitor the chatbot
- Conducted A/B testing and control group analysis to validate positive reinforcement and multivariate testing, measuring a 20% improvement in its response performance
- Collaborated with cross-functional teams in sprint planning workshops to develop streamlined project roadmap flowcharts

Senior Data Scientist - Comviva

September 2021 - July 2023

- Led the design, development, Docker containerization, AWS SaaS deployment of an end-to-end automated AI/ML product
- Integrated REST APIs, model performance visualization tools and deep learning modules based on customer requirements
- Streamlined the cleaning and processing of large datasets to construct demand forecasting and upselling/cross-selling machine learning models, yielding an 8% to 10% reduction in customer churn for telecom clients
- Deployed Qlik Cloud and Monitor, obtaining a 30% run-time reduction in the dashboard generation process
- Accelerated SDLC by implementing sprint iterations, CRM skills for SaaS, boosting Product Life Cycle velocity by 60%
- Managed a team of five, overseeing the big data ETL processes by using Apache NiFi and PySpark

Machine Learning Intern - Compssoft Technologies

July 2021 - September 2021

- Performed market analytics and sentiment analysis on social media/website reviews using NBSVM, achieving 84% accuracy
- Increased accuracy to 86.7% through NLP enhancements such as cleaning, lemmatization, stemming, and tf-idf techniques
- Refined interactive Power BI dashboards with query folding and data modeling to effectively present performance metrics

PROJECTS

Business consultancy for a motion capture company to enter the retail domain

April 2024

- Provided a data-driven B2B strategy to enter the US retail market with in-store analytics, BI, and warehouse management system use cases by conducting detailed market research, product and data analysis, and creating visualizations
- Executed cohort analysis to examine customer lifetime value and shopping behaviors, providing actionable recommendations for targeted marketing efforts, supply chain optimization and customer retention plans

Diabetes Prediction using Machine Learning Classifiers: Random Forest, Naïve Bayes & XGBoost

January 2022

- Processed the Pima dataset using 5-fold cross validation and maximized the metrics through hyperparameter tuning
- XGBoost outperformed Naïve Bayes with sensitivity, specificity and AUC scores of 81.2%, 94.5% and 2.02% respectively

Customer Segmentation and Next Best Offer Recommendation for retail e-commerce dataset

December 2023

- Segmented high-value customers using K-Means clustering and RFM analysis for marketing strategies to improve retention
- Built sales prediction models to determine the propensity score of customers accepting offers, attaining a recall of 86.1%