

ANISHA J

DATA SCIENTIST

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PROFILE

Passionate Data Scientist with a proven track record of extracting actionable insights from complex data through cutting-edge technologies. Demonstrated expertise in innovative problem-solving and driving impactful solutions through collaboration across diverse teams. Eager to leverage my skills in Data Science and Generative AI to accelerate growth and optimize decision-making.

PROFESSIONAL EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS

Jul 2022 - Present

Data Scientist (Grade – Programmer Analyst)

- Contributed to end-to-end data science projects, managing various aspects from data exploration to model deployment.
- Applied advanced machine learning algorithms, GEN AI models, and statistical models to optimize decision-making processes.
- Collaborated with cross-functional teams to translate business requirements into actionable insights and data-driven solutions.
- Staying updated with the latest developments in data science and emerging technologies through continuous learning.

CSIR- CENTRAL LEATHER RESEARCH INSTITUTE

May 2021-Jun 2021

Data Analyst Intern

- Conducted in-depth time series analysis to identify patterns and trends for forecasting key business metrics of leather products.
- Implemented linear regression models to analyze variable relationships, providing actionable insights.
- Contributed to data preprocessing, cleaning, and validation, ensuring the quality and integrity of datasets for modeling.
- Presented predictive model findings to the leadership team, emphasizing their value and impact on decision-making processes.

PROJECTS

GEN AI PROJECTS

- **GEN AI Address Matching:** Developed a Gen AI-based address matching solution with a focus on address correction, achieving a high accuracy of more than 90% in test environment. It covers comprehensive error scenarios and utilizes various prompting techniques, like Few Shots, Chain of Thought and Router Chain. This automated address matching, reduces manual effort and significantly enhancing operational efficiency.
- **GEN AI Audit Solution:** This solution focuses on identifying plant, property, and equipment disclosure details, ensuring FASB compliance. It excels in comparative analysis among industry peers, identifying presentation gaps and prescribing best practices. This system substantially benefits auditors, streamlining processes and reducing manual efforts in the auditing workflow.
- **GEN AI Insurance Claim Assistant:** Engineered synthetic data for insurance policies and claims, meticulously trained on diverse scenarios, ensuring accurate claims processing.
- **GEN AI Payment Assistant:** This AI-powered Payment Assistant utilizes OpenAI's GPT model to seamlessly interact with users, delivering highly informative and personalized responses to their payment-related queries.

WHOLESALE LOAN PREPAYMENT MODEL

- Developed a Logistic Survival Regression framework to project voluntary prepayments for commercial loans in C&I Term, C&I Revolver, and CRE Term segments.
- Employed the Exclusion/Inclusion waterfall technique for data cleaning and applied transformation to macro-economic variables.
- Performed post-model analysis, including CCAR Scenario Analysis, MEV Sensitivity Analysis, Benchmarking Analysis, Parameter Sensitivity Analysis, and Performance Monitoring.
- Achieved a significant reduction in RMSE metric, validating the model's robust performance for production deployment.

CREDIT RISK MODELLING

- Modeled credit risk for individual borrowers using linear and logistic regression frameworks, addressing components such as Probability of Default (PD), Loss Given Default (LGD), and Exposure At Default (EAD).
- Developed distinct models for each component and seamlessly integrated them to calculate overall Expected Losses.
- Implemented a user-friendly interface with Gradio for efficient calculation and presentation of Expected Loss, enhancing accessibility and usability.

EDUCATION

Master of Science in Statistics (CGPA – 9.1) Madras Christian College, East Tambaram	2020-2022
Bachelor of Science in Mathematics (CGPA – 8.1) Madras Christian College, East Tambaram	2017-2020

Relevant Coursework: Calculus, Probability, Big Data, Quality Control, Multivariate Analysis, Design of Experiments

SKILLS

- Programming Languages:** Python, SAS, R, SPSS
- Data Science Technologies:** Machine Learning, Deep Learning, NLP
- Generative AI Technologies:** Lang chain, Prompt Engineering, Hugging Face, Open AI, Llama,
- Business Intelligence Tools:** Tableau, Power BI, Advanced Microsoft Excel
- Databases:** SQL
- Cloud:** Azure Fundamentals

CERTIFICATIONS

GEN AI Fundamentals – Cognizant	Dec 2023
Career Essentials in Generative AI – Microsoft and LinkedIn	Sep 2023
AZ-900: Azure fundamentals – Microsoft	Jun 2023
AI-900: Azure AI fundamentals – Microsoft	Jun 2023
Python for Data Science and Machine Learning Bootcamp – Udemy	Nov 2022
The Complete SQL Bootcamp – Udemy	Aug 2022
Data Analytics Skilling Course – HOPE Foundation	May 2021 - Mar 2022
Python for Everybody Specialization – Coursera	Feb 2021

OTHER ACCOMPLISHMENTS

- Recognized with multiple Cheer Awards from Cognizant for consistent support and active participation in hackathons.
- Collaborated actively with peers to develop Gen AI and Data Science-based Proof of Concept (PoC) solutions.
- Presented a paper titled "A Study on Identification of Important Factors Influencing Online Shopping" at the International Conference on Recent Strategies in Mathematics and Statistics (ICRSMS2022).
- Attended various workshops and training sessions to stay updated on industry trends and advancements.

LANGUAGES

English | Tamil | Malayalam

HOBBIES

Photography | Movies | Cooking