

ANISHA J

PROMPT ENGINEER

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PROFILE

Prompt Engineer with a strong background in Data Science and Generative AI. Skilled in developing, refining, and implementing GEN AI models and advanced prompt engineering techniques to drive operational efficiency. Proficient in collaborating with cross-functional teams, troubleshooting issues, and ensuring optimal system performance. Skilled in providing prompt support, documenting processes, and training team members on relevant technologies. Looking to apply my skills in a challenging Prompt Engineer role.

PROFESSIONAL EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS

Jul 2022 - Present

Data Scientist (Grade – Programmer Analyst)

- Contributed to end-to-end data science projects, developing, testing, and implementing AI solutions.
- Applied advanced machine learning algorithms and Generative AI models to drive operational efficiency.
- Collaborated with cross-functional teams to understand project objectives and requirements.
- Monitored and analyzed AI model performance to ensure optimal functionality and efficiency.
- Documented all processes, made necessary adjustments, and provided prompt support when needed.
- Trained other team members on the use of Generative AI technologies and methodologies.

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.
- **GEN AI Insurance Claim Assistant:** Engineered synthetic data for insurance policies and claims, meticulously trained on diverse scenarios which helps the claims adjuster to validate and process claims.
- **GEN AI Payment Assistant:** This Conversational AI 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.

EDUCATION

Master of Science in Statistics (CGPA – 9.1)

2020-2022

Madras Christian College, East Tambaram

Bachelor of Science in Mathematics (CGPA – 8.1)

2017-2020

Madras Christian College, East Tambaram

Relevant Coursework: Calculus, Probability, Big Data, Quality Control, Multivariate Analysis, Supply Chain Analytics

SKILLS

- **Programming Languages:** Python, SAS, R, SPSS
- **Data Science Technologies:** Machine Learning, Deep Learning, NLP, Optimization Techniques
- **Generative AI Technologies:** Lang chain, Prompt Engineering, Hugging Face, LLM Open AI, Vertex AI
- **Business Intelligence Tools:** Tableau, Power BI, Advanced Microsoft Excel
- **Databases:** SQL
- **Cloud:** Azure Fundamentals
- **Soft Skills:** Problem Solving, Decision Making, Analytical Thinking

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