

EDUCATION

George Mason University, Virginia.	Dec 2022 - Dec 2024
Master of Science in Data Analytics Engineering, Grade: 3.9 / 4.0	
Osmania University, Hyderabad:	Jun 2016 - May 2020
Bachelor of Technology in Electrical and Electronics Engineering, Grade: 3.1 / 4	

SKILLS

Languages	Python, R (Programming), C, PySpark, Java
Web Development	HTML, CSS, JavaScript
Databases	MySQL, Oracle DB, MongoDB, MS SQL Server
Data Science	NumPy, Pandas, SciPy, Seaborn, Scikit-learn, BeautifulSoup
Machine Learning	Clustering, Regression, KNN, Decision Trees
Tools & Framework	Power BI, Tableau, Hadoop, Spark, Jupyter Notebook, Microsoft Excel, Word, Power Point, Visual Studio Code, R Studio, SAS, Azure Databricks, Analytical Solver
Cloud services	Amazon Kendra, Amazon Lex, Amazon DynamoDB, Amazon Bedrock

WORKEXPERIENCE (3 YEARS)

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| Data analyst Intern Infosys Limited, India | Jan 2021 – Jan 2022 |
| <ul style="list-style-type: none"> Assisted in performing exploratory data analysis (EDA) on financial datasets using Excel and SQL to identify patterns and trends supporting business insights. Created basic dashboards and reports using Excel to provide visibility into key financial metrics and business performance. Collaborated with senior analysts to document data processes and workflows, enhancing the understanding of data lineage and reporting structures. | |
| Data analyst Infosys Limited, India | Jan 2022 – Dec 2023 |
| <ul style="list-style-type: none"> Designed and implemented scalable data pipelines using SQL and Python, automating ETL processes to improve data accuracy and reduce processing time by 30%. Developed predictive models to analyze insurance claims data, assess risk factors, and optimize pricing strategies. Conducted actuarial analysis and loss reserving projections, supporting financial planning and risk mitigation strategies. Collaborated with cross-functional teams to analyze key business drivers, ensure compliance with regulatory standards, and improve pricing methodologies. | |

PROJECTS

- Generative AI Retrieval-Augmented Generation (RAG) Chatbot for City Governments:**
 - Developed a scalable and secure Generative AI chatbot prototype for city government services using AWS.
 - Implemented Retrieval-Augmented Generation (RAG) architecture with Amazon Kendra and Amazon Bedrock to enhance response accuracy and mitigate AI hallucinations.
 - Integrated AWS Lambda, Lex, and DynamoDB for seamless serverless processing and real-time citizen engagement.

Technology/Tools: AWS Kendra, Bedrock, Lambda, Lex, DynamoDB, Python, Machine Learning, Prompt Engineering.
- SkinGPT: AI-Powered Diagnostic System for Skin Condition Analysis**
 - Developed SkinGPT, an AI-driven diagnostic tool for skin condition analysis using YOLOv5 for image classification and the LLaMA model for NLP.
 - Designed a user-friendly chatbot interface to provide detailed and accessible health information, enhancing patient engagement.
 - Supported dermatologists with reliable second opinions and improved dermatological care accessibility, especially in underserved areas.

Technology/Tools: Machine Learning, Natural Language Processing, YOLOv5, LLaMA Model, Telemedicine, Patient Engagement.
- Machine Learning project for predicting patient survival and identifying key features related to heart failure:**
 - Developed machine learning models to predict patient survival in heart failure and identify key clinical features, leveraging logistic regression, KNN, decision trees, and random forests.
 - Conducted social media sentiment analysis on 100,000+ tweets using NLP techniques, improving accuracy with tokenization, stop-word removal, and stemming/lemmatization.
 - Built interactive data visualizations and model presentations using R for clinical predictions and Python (Matplotlib, Seaborn) for sentiment analysis insights.

Technology/Tools: NLTK, SVM, Naive Bayes, Random Forest, Matplotlib, Seaborn, Python.