

PAYAL SAMANTA

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EDUCATION

UNIVERSITY OF SOUTH FLORIDA, TAMPA: Muma College of Business

GPA: 4.0

Master of Science in Business Analytics and Information Systems, December 2024

Coursework: Data warehousing, Big Data, Analytical Methods for Business, Distributed Information Systems, Data science, cloud computing, project management

MALLA REDDY ENGINEERING COLLEGE, INDIA: College of Computer Science

GPA: 3.9

Bachelor of Technology in Computer Science & Engineering, June 2022

EXPERIENCE

TPOINT TECH

June 2021 – Present

Technical Developer (Data Analyst)– Part Time

- Created customer-facing reports, including Executive Business Reviews, to demonstrate Javatpoint's value and foster client relationships, resulting in a 20% increase in client satisfaction. Conducted stakeholder sessions with over 50 participants to gather requirements.
- Developed reports and dashboards on by-request basis using **Power BI, MS Excel, and MS PowerPoint**, resulting in a 15% improvement in data accessibility.
- Interpreted and analyzed data from multiple sources (course sales, feedback, marketing metrics) using stored procedures and complex SQL queries and optimize performance that led to a notable 10% increase in customer retention rates, resulting in an estimated millions in additional revenue.

COMMVault

February 2022 – July 2022

Associate Developer (Data Engineer)- Full time Intern

- Designed and maintained robust **ETL pipelines using Databricks, PySpark, and Azure Data Factory** to handle large-scale transactional data and ensure timely, accurate reporting.
- Optimized and orchestrated ETL workflows using Airflow, achieving a 40% performance boost in processing large-scale database transactions. Utilized **Hive data partitioning and bucketing** to address workflow bottlenecks, significantly improving query performance and real-time data availability for client databases.
- Leveraged data engineering skills to identify and fix errors in data transformation processes for database transactions and reporting. Developed and implemented **SQL-based validation tests** to ensure data integrity across multiple pipelines, leading to a 40% improvement in data accuracy.
- Worked on loading data into Snowflake DB in the cloud from Azure data lake.
- Automated ETL processes for cleaning structured and unstructured data from multiple sources using Python scripts. Designed data profiling processes, running SQL queries and using Python for data acquisition, comparisons, and schema validation.

EXPOSYS DATA LABS

October 2023 – December 2023

Data Science - freelance

- Developed RAG chatbots** for educators, course participants; enhancing FAQ responses and improving the learning experience for 100+ users.
- Optimized user support** by integrating chatbots, reducing manual intervention and increasing satisfaction.
- Implemented NLP algorithms**, conducted testing, and documented processes for reliable and effective chatbot performance.

LEADERSHIP

- JAVATPOINT:** led a team of 10 members in conducting content research, delivering technical articles, resulting in a 30% increase in website traffic.
- Curriculum Project (USF):** Led a team of 6 members Developed and deployed a responsive CRUD application website over Azure apps using .NET MVC framework in Visual Studio, enabling customers to book and cancel appointments efficiently.
- Student Govt Asso Vice Lead (MREC):** Led a team to increase student engagement by 30% and directed a sustainability campaign reducing waste by 99%.
- Campus Ambassador (MREC):** Represented our university at various events, organized workshops and seminars, each attended by at least 700 people.

GITHUB PROJECTS

- [Integrated OCR and Machine Learning Analysis with ChatGPT API](#)
- [Flight Delay Prediction Using Spark ML](#) ~~Team Apogee- Bigdata Project-~~ <https://www.youtube.com/watch?v=AY-Wuo8UCfg>
- [AWS Redshift ETL Project Advanced Database Management - Final Project](#)
Led end-to-end data analysis using AWS Redshift and S3, optimizing data upload and processing for real-time insights.
Designed and executed **efficient ETL pipelines**, applying advanced analytical models to extract actionable patterns, enhancing decision-making by 30%.

SKILLS AND CERTIFICATIONS

- Technical core skills- Python, SQL, power bi, MS Excel, Microsoft Office Suite. ML frameworks: TensorFlow, PyTorch, OpenAI, and LangChain
- AWS Certification-** cloud solutions architect associate
- Certified in Microsoft Azure AZ-900 (Azure) and notable work at Microsoft hackathon - [Link](#)
- Certification in Accenture north America - Data Analytics and Visualization.

ACHIEVEMENTS

- Passionate about creating YouTube videos on fashion; Won every dancing competition in school competition.
- Awarded a \$25,000 merit National scholarship by the Telangana Board of Education for the year 2023.
- Achieved a score of 326/ 340 in Graduate Record Exam (GRE) with perfect score in Quant 170/ 170.