

ASWINI LOUKYA VUPPU

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PROFESSIONAL SUMMARY

Data Analyst with 5+ years of experience transforming complex datasets into actionable business insights. Skilled in Python, SQL, and data visualization tools including Power BI and Tableau. Proven track record analyzing large datasets, building predictive models using machine learning techniques, and creating compelling dashboards that drive strategic decision-making. Strong background in statistical analysis, data mining, and presenting findings to both technical and non-technical stakeholders. Experienced working in Agile environments with cross-functional teams.

TECHNICAL SKILLS

- Programming & Analysis: Python, SQL, R, Statistical Analysis, Data Mining
- Data Visualization: Power BI, Tableau, Matplotlib, Seaborn, Excel Dashboards
- Machine Learning: Regression Models, Decision Trees, Random Forest, K-Means Clustering, Predictive Analytics
- Python Libraries: Pandas, NumPy, Scikit-learn, SciPy, Matplotlib, Seaborn
- Databases: MySQL, PostgreSQL, MongoDB, SQL Server, Query Optimization
- Big Data Tools: Hadoop, Apache Spark, ETL Processes, Data Warehousing
- Tools: Jira, Confluence, Git, Jupyter Notebook, Excel (Advanced)

PROFESSIONAL EXPERIENCE

Data Analyst / QA Specialist | Tata Consultancy Services | June 2020 - June 2022

- Analyzed large datasets from production systems to identify trends, patterns, and performance issues affecting business operations
- Created comprehensive SQL queries to extract, transform, and validate data from multiple database sources
- Developed automated data quality reports using Python, reducing manual validation time by 50%
- Built interactive dashboards and reports using Power BI to communicate insights to stakeholders and management
- Performed statistical analysis on test results to identify root causes and recommend data-driven solutions
- Collaborated with development teams to improve data collection processes and ensure data integrity
- Documented analytical methodologies and findings in Confluence for team reference and knowledge sharing
- Worked in Agile environment participating in sprint planning and presenting data insights to cross-functional teams

Data Scientist / Python Developer | Cerium Systems Pvt Ltd | July 2018 - June 2020

- Conducted end-to-end data analysis including data collection, cleaning, exploration, and statistical modeling
- Built machine learning models for text analysis and entity recognition achieving 85% accuracy
- Developed Python scripts using Pandas and NumPy for data preprocessing and feature engineering
- Created data visualizations using Matplotlib and Seaborn to present findings to business stakeholders
- Performed exploratory data analysis to identify key patterns and trends in business documents
- Collaborated with product teams to translate business requirements into analytical solutions
- Presented analytical findings and model performance metrics in regular project meetings

Data Analyst / Python Developer | Mobicloud Infosystems Pvt Ltd | February 2017 - July 2018

- Implemented data-driven solutions for business problems using predictive analytics and statistical modeling
- Performed exploratory data analysis on diverse datasets to identify insights and support business decisions
- Built predictive models using Linear Regression, Logistic Regression, Decision Trees, and Random Forest algorithms
- Created data processing pipelines using Python to automate data collection and transformation workflows
- Developed visualizations using Matplotlib and NumPy to communicate analytical findings effectively
- Worked with Hadoop for big data processing and analysis of large-scale datasets
- Validated model performance and continuously improved accuracy through iterative testing and refinement

KEY PROJECTS

Customer Behavior Analysis & Prediction Model

Analyzed customer transaction data to identify purchasing patterns and build predictive models for customer churn. Created interactive Power BI dashboard presenting key metrics and recommendations to management. Achieved 82% accuracy in predicting customer behavior, enabling targeted retention strategies.

ETL Pipeline & Data Quality Dashboard

Designed and implemented automated ETL pipeline processing daily data feeds from multiple sources. Built data quality monitoring dashboard using SQL and Power BI to track data integrity metrics. Reduced data processing time by 60% and improved data accuracy to 99.5%.

EDUCATION

Master of Information Technology | Kaplan Business School, Australia | 2022 - 2024

Bachelor of Technology in Electronics and Communications Engineering | Avanthi Institute of Engineering and Technology | 2012 - 2016

PROFESSIONAL ATTRIBUTES

- Strong analytical and problem-solving skills with attention to detail
- Excellent communication skills for presenting complex data insights to non-technical audiences
- Proven ability to work independently and collaboratively in team environments
- Experience with Agile methodologies and working in cross-functional teams
- Quick learner with passion for staying current with emerging data analysis techniques
- Australian Permanent Resident with full working rights