Arthi Anbalagan

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SUMMARY

Experienced Data and Business Intelligence Analyst with 4 years of expertise in transforming data into clear, actionable insights through analytics, dashboarding, and automation. Skilled in SQL, Python, Power BI, and Tableau, with a strong understanding of ETL processes, statistical analysis, and cloud-based data integration (Azure). Adept at enhancing reporting accuracy and working closely with stakeholders to support data-informed decision-making.

SKILLS

Data Analytics: SQL, Python(Pandas) , DAX, Advanced Excel (Pivot Tables, VLOOKUP, Automation)
Visualization & Reporting: Power BI, Tableau, IBM Cognos
ETL & Data Management: SSIS, Azure Data Factory, Power Automate

PROFESSIONAL EXPERIENCE

Data Analyst, CVS Health   **Jun 2025 - Present | MA**
- Analyzed large datasets using SQL and Python, uncovering key insights that led to actionable business strategies and resulted in a 13% improvement in operational performance across departments.
- Developed and maintained dynamic Power BI and Tableau dashboards that provided real-time insights into KPIs, empowering stakeholders to make data-driven decisions, reducing decision-making time.
- Collaborated with business teams to define KPIs and create tailored reporting structures, aligning data insights with strategic business goals, leading to increase in departmental efficiency.
- Leveraged Azure Data Factory to automate ETL processes, streamlining data integration and reducing manual processing time by 26%, ensuring timely and accurate data delivery.

Business Intelligence Analyst Intern, Eclinicalworks   **Jun 2024 – Aug 2024 | MA**
- Maintained 15+ custom Cognos 11 reports for healthcare facilities, improving analytics capabilities and driving a 10% increase in operational efficiency across the organization.
- Conducted detailed SQL analysis for the 340B Program, identifying potential cost-saving measures that resulted in estimated savings for the organization.
- Automated key workflows using Power Automate, reducing administrative time by 24% and allowing the team to focus on higher-value tasks, improving overall productivity.

Graduate Teaching Assistant, Pennsylvania State University   **Jan 2023 – Dec 2024 | PA**
- Assisted the professor in instructing over 80 students in data analytics, SQL, and BI tool usage, bridging theoretical concepts with practical applications in BI development and reporting.

Data Analyst, Cognizant Technology Solutions   **Jul 2019 – Dec 2022 | India**
- Designed and maintained over 50 Power BI dashboards, enhancing reporting efficiency by 26% and enabling executives to make quicker, data-driven decisions with real-time insights that directly impacted business operations.
- Optimized 100+ SQL queries, streamlining ETL processes and improving database performance, reducing report generation time and enabling faster insights for key business functions.
- Implemented advanced DAX formulas and measures, reducing dashboard load times by 28%, which significantly improved the user experience, especially for high-volume reports during peak business periods.
- Automated data processing workflows using SSIS, cutting manual effort by 20 hours per week, which led to more timely and accurate data delivery while increasing team productivity.

Data Analyst Intern, NLC India ltd   **May 2018 – Jul 2018 | India**
- Created Power BI dashboards to track PLC system performance, identified trends that led to a 10% improvement in response time, and supported teams in optimizing workflows, reducing manual effort by 15%.

EDUCATION

Master of Science in Information Systems, (GPA – 3.9/4)
Pennsylvania State University, PA   **Jan 2023 - Dec 2024**
Bachelor of Engineering
Anna University, Chennai, India   **Jul 2015 - Jun 2019**

PROJECTS

Medical Insurance Cost Analysis | Python, Pandas, Matplotlib, Seaborn
- Analyzed 1,300+ insurance records to identify key cost factors and built a regression model with 85% accuracy to predict charges, enabling data-driven insights for cost optimization.

Medical Surveillance Plan for Hazardous Medications
- Designed a Power BI medical surveillance dashboard for Geisinger to monitor hazardous drug exposure, identifying 5+ risk indicators and proposing a model to cut compliance gaps by 20%.

Development of an In-patient Surgeries DBMS for UPMC
- Developed and implemented a centralized database using SQL to manage data for over 10,000 patients at UPMC's in-patient surgeries and streamlined data access, reducing administrative workload by 30%.

Loan Approval Decision-making Using Datamining Models
- Led a project utilizing IBM SPSS and StatTools for advanced Regression models, achieved 90% accuracy through data preprocessing and reducing loan approval processing time by 20%.