

ARTHI ANBALAGAN

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PROFESSIONAL SUMMARY

Detail-oriented Business Intelligence and Data Analyst with expertise in advanced analytics, SQL, data visualization, and interactive dashboard development. Proven experience in delivering actionable insights, optimizing data pipelines, and driving strategic decisions through data-driven solutions.

SKILLS & CERTIFICATIONS

- **Programming Languages:** SQL, Python, Java
- **Frameworks and Tools:** Power BI, QlikView, Cognos, Tableau, IBM SPSS, GitHub, Adv Excel, Visual Studio, SSIS, SSMS
- **Certifications:** Microsoft Power BI (DA-100) and Azure Fundamentals (AZ-900)

WORK EXPERIENCE

Business Intelligence Analyst Intern | Eclinicalworks, MA

Jun 2024 – Aug 2024

- Developed and tested 15+ custom Cognos 11 reports, enhancing analytics for 100+ healthcare facilities.
- Conducted SQL-based data analysis to support the 340B Program, identifying key cost variables and uncovering potential savings of 10%.
- Created Power Automate templates, streamlining workflow processes and supporting patient care automation.

Graduate Teaching Assistant | Pennsylvania State University, PA

Jan 2023 – Dec 2024

- 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, Chennai, India

Nov 2019 – Dec 2022

- Designed and maintained 50+ Power BI dashboards, boosting reporting efficiency by 30% for the CIO board members.
- Engineered and refined more than 100 complex SQL queries within SSMS for ETL processes, achieving a 25% improvement in database performance.
- Optimized dashboard performance through advanced DAX calculations, reducing report load times by 30%.
- Automated data pipelines via SSIS packages, reducing manual processing time by over 20 hours per week.
- Collaborated with business stakeholders to define KPIs, data metrics, and reporting requirements.

Data Analyst Intern | NLC India Ltd, India

May 2018 – Jul 2018

- 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%.

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%.

Analysis of Electronics Dataset

- Cleaned and analyzed 500K+ rows in Excel using advanced stats (ANOVA, regression), boosting decision-making accuracy by 15%.

EDUCATION

Pennsylvania State University, PA

Dec 2024

Master of Science in Information Systems, (GPA – 3.9)

Anna University, Chennai, India Bachelor of Engineering

Jun 2019