**Arthi Anbalagan**
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## SUMMARY

Experienced Data and Business Analyst with 5 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 (AWS, Azure). Adept at enhancing reporting accuracy and working closely with stakeholders to support data-informed decision-making.

## SKILLS

**Programming & Scripting:** SQL, Python, Java
**Data Visualization & BI Tools:** Power BI, Tableau, QlikView, Cognos, Advanced Excel, DAX, IBM SPSS, StatTools
**Data Analytics & Engineering:** ETL Development, Data Cleaning, Data Preprocessing, Regression Analysis, ANOVA, KPI Definition, Database Management, Statistical Modeling, Dashboard Development, Data-Driven Insights
**Tools & Platforms:** Visual Studio, SSIS, SSMS, Power Automate, GitHub
**Cloud Platforms:** AWS (S3, Redshift, EC2), Microsoft Azure (Azure Blob Storage, Azure Data Factory)
**Soft Skills:** Stakeholder Collaboration, Workflow Automation, Strategic Thinking, Teaching & Mentorship, Problem Solving, Communication

## PROFESSIONAL EXPERIENCE

**Data Analyst, CVS Health** **Sep 2024 - Present | USA**

- 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.
- Applied regression analysis and statistical models to forecast business trends, offering data-driven recommendations that resulted in a 10% increase in revenue generation across key business units.

**Business Intelligence Analyst Intern, Eclinicalworks** **Jun 2024 – Aug 2024 | MA**

- Developed 15+ custom Cognos 11 reports for 100+ 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.

**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.
- Collaborated with cross-functional teams to define KPIs and align data metrics with strategic business goals, resulting in improved decision-making and more effective performance tracking across departments.
- Leveraged statistical modeling and regression analysis to forecast business trends, identifying areas for improvement that led to a 10% increase in operational efficiency and cost savings.
- Conducted data validation and cleansing to ensure the accuracy and reliability of reports used by senior leadership, which directly supported critical business decisions.
- Mentored junior analysts on Power BI best practices and data analysis techniques, fostering skill growth and improving team output, allowing them to take on more complex tasks and deliver higher-value insights.

**Data Analyst Intern, NLC India ltd** **May 2018 – Jul 2018 | India**

- Created Power BI dashboards to monitor PLC system performance, helping the team spot trends that led to a 11% improvement in response times and smoother workflows.
- Cleaned and processed data to ensure reports were accurate, cutting down on manual corrections and making decision-making faster and more reliable.
- Collaborated with engineers and project managers to streamline data collection, which reduced manual effort by 16%, making data more accessible and supporting better operational decisions.

## EDUCATION

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

## CERTIFICATIONS

Microsoft Power BI (DA-100) and Azure Fundamentals (AZ-900)

## 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%.