S.VIGNESH | **Contact:** +1 289 356 7697

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Professional Summary

TECHNICAL SKILLS

Methodologies	SDLC, Agile, Hybrid and Waterfall.
Analysis Techniques	GAP Analysis, SWOT Analysis, Risk Analysis
Quality Management	JIRA
Documentation Tools	SharePoint, MS Office (Word/Excel/Power Point)
Project Management	MS Project, MS Office Suite (Word, Excel, PowerPoint)
BI Tools	Tableau, Power BI,Alterix
Testing Tools	Postman
Languages	SQL, Python (pandas, matplotlib, seaborn, plotly, numpy, keras, tensorflow,pytorch), R (ggplot), ML Techniques,GenAI,LLM
Databases	MS Access, SQL Server, PostgreSQL

PROFESSIONAL EXPERIENCE

Client: **Nvest Solutions, IN**   **Sep 2022 – Sep 2023**
 Position: Business Analyst

Key Responsibilities:
- Gathered and analyzed business requirements, translating them into technical specifications to support decision-making.
- Developed SQL queries, stored procedures, and triggers for data retrieval and business process automation.
- Created interactive dashboards and visualizations using Power BI for actionable insights.
- Automated data integration processes using SSIS to streamline data flow across various sources.
- Generated reports using SSRS, including drill-down and parameterized reports, and scheduled recurring reports.
- Optimized SQL queries to improve system performance and report efficiency.
- Collaborated with stakeholders to ensure reporting outputs aligned with business needs.
- Provided expertise in Azure cloud architecture, including Azure SQL databases and virtual machines.

Environment: Power BI, SQL Server, T-SQL, SSMS, SSRS, Azure

Client: **Web-Tech Pvt Ltd, India,**   **Aug 2021 – Sep 2022**
 Position: Junior Data Analyst

Key Responsibilities:
- Worked with managers and clients to gather and analyze business data, identifying key trends and actionable insights to drive business improvements.
- Fine-tuned model hyperparameters and performed assumption checks to optimize algorithm performance.

- Developed interactive dashboards and visualizations using Power BI and Tableau to present insights to stakeholders.
- Collaborated with engineering teams and client stakeholders to deploy analytical prototypes into production environments.
- Automated data integration and reporting processes using SQL and Python, streamlining workflows and improving efficiency.
- Conducted risk analysis and developed data models, contributing to strategic business decisions.
- Worked with cloud platforms (Azure) to handle large datasets, ensuring seamless data processing and analysis.

Environment: Python, R, SQL, Power BI, Tableau, Azure, Data Modeling

Education:

- Bachelor of Technology in Computer Science, DCE, India
- Masters in Business Analytics and AI, OntarioTech University, Canada

Projects:

Optimizing Investment Outcomes: Comparative Analysis of Technical Indicator-Based Stock Trading Strategies vs. Mutual Fund Performance
- Implemented nine technical trading strategies in Python, achieving a cumulative return of 624.28% for EMA and outperforming mutual funds in 6 out of 10 years.
- Conducted exploratory data analysis on 10 years of stock data for companies like Apple, Tesla, and NVIDIA, using libraries such as pandas, matplotlib, and pandas_ta.
- Evaluated strategies through metrics like average return, Sharpe ratio, and win rate, identifying the EMA strategy's 23.42% average return and its adaptability to market conditions.
- Presented insights on risk-adjusted returns and diversification strategies, recommending data-driven approaches for portfolio optimization and investor decision-making.

Diabetes Prediction Using R: A Machine Learning Approach

- **Performed** Exploratory Data Analysis (EDA) on a healthcare dataset, identifying key patterns and correlations related to diabetes risk factors.
- **Developed** predictive models using Logistic Regression (**97% accuracy**), Random Forest (**98% accuracy**), and K-Nearest Neighbors (**91% accuracy**), validated through **10-fold cross-validation** for robust evaluation.
- **Applied** manual oversampling techniques to balance the dataset, improving model reliability and ensuring accurate predictions across diverse patient profiles.
- **Delivered** actionable insights through a comprehensive report and presentation, enabling data-driven strategies for diabetes risk assessment and patient management