SRINATH BULUSU

Masters Degree in Data Science
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PROFESSIONAL SUMMARY:

- Senior Software Developer with 3 years of experience at Capgemini Technology Services, specializing in Snowflake, data warehousing , data engineering, DevOps automation and backend development with AWS-driven continuous integration.
- Successfully implemented CI/CD pipelines for automated data ingestion, using stored procedures in Snowpark ,DevOps practices and included version control (GitHub, Flyway), error detection ,auto-recovery mechanisms, automated data flow from AWS S3 as a source for raw data and integrating it into Snowflake.
- Extensive expertise in SQL relational databases (Oracle SQL, Snowflake), executing data modeling, data profiling, and statistical modeling to transform complex datasets into valuable business insights.
- Experience in role-based access control (RBAC), data security, database and schema creation across multiple projects, ensuring alignment with governance policies of the organization. Implemented data masking, row-level security and access control measures.
- Proficient in Agile and Scrum methodologies using JIRA, driving collaborative team environments.
- Developed MLOps pipelines for predictive analytics, incorporating machine learning techniques such as Logistic Regression, Random Forest, Gradient Boosting, and Deep Learning (CNN) to optimize data-driven decisions.
- Expert in data mining techniques, creating algorithms with classification, clustering, decision trees, K-Nearest Neighbor, neural networks, and predictive analysis, along with aggregation, to uncover patterns, trends that drive business decision-making and operational efficiency.
- Experienced in data visualization using Tableau and Power BI, translating quantitative analysis into actionable insights to support key business initiatives.
- Developed a responsive, interactive portfolio website using HTML, CSS, and JavaScript, showcasing professional projects, skills, and experience across multiple domains.

SKILLS:

- Programming Languages: SQL,Python,Javascript,C
- Data Engineering Tools: Snowflake, Snowpark, AWS Glue, AWS Lambda, AWS S3, Alteryx
- Database Tools: Oracle SQL, Microsoft SQL,SQL Server Management Studio, SQL Workbench, NoSQL, Palantir
- DevOps Tools: Flyway, GitHub, Jenkins Pipelines, CI/CD automation
- Front End Tools: HTML,CSS,React JS,Typescript,Node JS
- Visualization Tools: Tableau, Informatica, Power BI, R
- ML Techniques: Linear Regression, Logistic Regression, Decision Trees, Random Forest, Support Vector Machine (SVM), K-Nearest Neighbors (KNN), Naive Bayes, Gradient Boosting (XGBoost, AdaBoost), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Autoencoders, Deep Reinforcement Learning
- Other Tools: Jira, AutoCAD ,Microsoft Office (PowerPoint, Excel, Word)

EXPERIENCE:

Company:Capgemini Technology Services,India,   Period:May 2021 to Jan 2024

1.Client:Prudential Financial

- Successfully built an automated pipeline for an enterprise where different teams can onboard their roles and data in an automated manner involving minimum human intervention ensuring data security and data quality in snowflake.
- Developed Python-based stored procedures in Snowpark to automate data ingestion and transformation across six layers(databases) handling large datasets (up to 15TB).
- Built pipelines from AWS S3 as the source to Snowflake as the destination, efficiently processing multi-format files (CSV, Parquet, JSON, XML).
- Implemented error detection and auto-recovery mechanisms, ensuring uninterrupted data processing.
- Designed and implemented RBAC policies, role management, and access controls in Snowflake, ensuring data security.
- Applied data classification techniques, tagging data elements based on business requirements and applying data masking for enhancing security.
- Deployed Change Data Capture (CDC) mechanisms, facilitating data integrity and real-time analytics as per the requirement.
- Maintained data security measures using Flyway pipelines, ensuring standardized deployments across multiple environments. Collaborated with other teams to integrate data pipelines into DevOps processes, aligning with enterprise-wide deployment strategies.

- Developed and optimized data integration and warehousing solutions, implementing customer experience enhancements using Snowflake Share feature.

2.Client: Medica HealthCare

- Developed SQL queries and Snowflake scripts to create views, improving data accessibility and workforce system usability.
- Created Incremental Type1 and Type2 data ingestion pipelines using Snowflake Streams, Merges, and Tasks, optimizing data synchronization.
- Designed ETL workflows in Snowflake to enhance data warehousing capabilities, improving data quality and troubleshooting performance issues.Implemented data cloning, sandbox environments, and security policies.
- Automated job execution workflows using Atomic scheduling tools, streamlining workforce system operations.
- Regularly engaged in Scrum meetings, contributing to strategic initiatives and ensuring smooth project delivery.

PROJECTS

1. Personalized Fitness Tracker with AI-Based Insights

   Objective: To design and develop a full-stack fitness tracker web application that allows users to log workouts, track progress, and receive AI-driven personalized recommendations.

- Designed and developed a full-stack web application for personalized fitness tracking, enabling users to log workouts, monitor progress, and receive AI-powered recommendations for optimized health outcomes.
- Designed backend APIs using Node.js and Express.js to handle user authentication, workout data management, and goal tracking, incorporating robust middleware for logging and error handling.
- Designed and optimized the database schema using ER diagrams, AI-assisted schema generation, and structured data pipelines for ingesting workout and progress data.
- Built a responsive front-end using Vite.js and React, developing modular components for login, workout logging, dashboards, and analytics visualization.
- Used api keys to streamline React component development, debug code for a good feature delivery.

2. Portfolio Website Development

- Implemented a mobile-friendly design with media queries to ensure seamless display across desktop, tablet, and mobile devices.Built a custom navigation system using JavaScript with section-based scrolling, dynamic slider navigation, and smooth transitions for good user experience.
- Designed a fixed sidebar menu with a collapsible toggle for mobile screens, enabling navigation and maximizing content visibility.Applied custom CSS animations (e.g., split-screen transitions, fade effects, hover interactions) to enhance the visual appeal and user experience.
- Ensured accessibility and performance optimization by minimizing DOM manipulation, optimizing image sizes, and adhering to responsive web best practices.
- Implemented interactive scroll logic and section visibility management using JavaScript event listeners.

3. Home Credit Default Risk

   Objective: Developed predictive models to assess loan repayment likelihood using data science techniques and machine learning algorithms.

- Conducted data collection and preprocessing, ensuring data quality by handling missing values.
- Applied Logistic Regression, SVM, KNN, Random Forest, and Convolutional Neural Networks (CNN) for statistical modeling and risk assessment. leveraging
- Utilized quantitative analysis to evaluate repayment likelihood, factoring in customer expenses, salary trends, and repayment history.
- Implemented deep learning techniques, restructuring features into 2D matrices to enhance prediction accuracy.
- Measured model performance using accuracy, precision, recall, F1-score, and AUC-ROC metrics.

EDUCATION:

1. Masters Degree in Data Science at Univeristy of Texas at Arlington with 4.0 /4.0 GPA.
2. Bachelors Degree in Mechanical Engineering at Jawaharlal Nehru Technological University in India with 8.03/10 CGPA.

CERTIFICATIONS:

1. Python Essentials by Coursera (2021).
2. Snowflake Cloud Data Practitioner by Coursera (2021).
3. Associate Cloud Engineer from Google Cloud Platform(2021).

AWARDS & RECOGNITION:

1. **Rising Star in Q2 FY-23** for scaling up quickly to deliver high performance in the project.
2. Promotion as **Senior Software Engineer** at Capgemini within 1 year for delivering efficient solutions.