

# Akshay Thampan

## Site Reliability Engineer

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## CAREER OBJECTIVE

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Aspiring Site Reliability Engineer (SRE) with a passion for embracing risk, achieving Service Level Objectives (SLOs), and eliminating toil through automation. Eager to contribute my strong foundation in programming, especially in Python, C++, C, and Java, along with analytical acumen and proficiency in Object-Oriented Programming (OOP), to enhance system reliability and performance at CareStack. Committed to promoting simplicity in system architecture, implementing robust monitoring solutions, and collaborating on release engineering to drive innovative solutions in line with the principles of Agile software development.

## PROJECTS

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### Movie Data Analysis Application

Aug 2023 – Sep 2023

**Developed a Python application for in-depth analysis of movie data using Pandas and Python.**

- Conducted comprehensive data preprocessing, feature selection, and exploration.
- Performed correlation analysis and visualized insights using heatmaps.
- Implemented Scikit-learn's SelectKBest for director success prediction based on IMDb ratings.

### SQL Data Analysis Tool for Apple Store Data

Jul 2023 – Aug 2023

**Created a software tool for in-depth analysis and visualization of the Apple Store dataset using SQL**

- Conducted data manipulation, exploration, and visualization through SQL queries.
- Executed various SQL queries for row count checks, NULL value identification, genre analysis, and price/user rating distribution exploration.

### Parkways - Smart Parking System

Sep 2022 – Apr 2023

**Designed and developed a smart parking solution using computer vision.**

- Implemented a deep neural network for the accurate detection and classification of cars in parking lot images.
- Utilized computer vision and image processing to monitor available parking spaces using camera images from parking lots.

## TRAINING AND CERTIFICATE

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### Data Visualisation: Empowering Business with Effective Insights Tata

Aug 2023 – Sep 2023

- Led data analysis initiatives for diverse datasets, focusing on Key Performance Indicators (KPIs) and industry trends.
- Engineered structured data models to enhance data connections and relationships.
- Collaborated closely with clients to define project requirements, conducted thorough data cleansing (monitoring), and delivered comprehensive content analysis (business analysis).
- Proficient in tools including Power BI, Tableau, Statistical Analysis, Python, R, and Data Cleaning/Transformation.

### Data Analytics and Visualisation Programme Participant Accenture

Aug 2023 – Aug 2023

- Pioneered the development and execution of a holistic data analysis strategy for diverse datasets, with a primary focus on KPIs and industry trends.
- Established a robust data model to facilitate meaningful data connections and relationships within a scalable relational database.
- Collaborated extensively with clients, conducted rigorous data cleansing (monitoring), and delivered comprehensive content performance analysis (business analysis) to stakeholders, emphasizing effective communication and collaboration.
- Leveraged PowerPoint to craft dynamic data visualizations (business intelligence), optimizing their use within an integrated application pipeline.

### Data Science Virtual Experience Programme British Airways

Jul 2023 – Jul 2023

- Acquired extensive review data using advanced web scraping techniques, with a specific emphasis on airline-specific feedback and innovative product insights (solutions).

- Executed a thorough data cleansing process (monitoring), applied advanced techniques such as topic modeling and sentiment analysis, and expertly trained machine learning models to forecast customer behavior (analysis).
- Conducted detailed assessments (metrics) and visually represented variable contributions, thereby generating actionable insights for decision-making (business analysis) and effectively propelling growth initiatives (leadership), with a keen eye on optimization.

EDUCATION

Computer science and engineering APJ Abdul Kalam Technological University CGPA: 7.36	Jul 2019 – Jul 2023 Palakkad, India
Senior School Certificate Examination Arafa English Medium School, Attur	Jun 2016 – Jul 2018

COURSES

Self-Paced Data Scientist Training and Project Completion Certificates Devtown	Jun 2023 – Jul 2023
<ul style="list-style-type: none"><li>• Proficient in data cleaning and manipulation using Python libraries like Pandas and Matplotlib.</li><li>• Strong data visualization skills with Power BI, Tableau, and SQL for efficient querying.</li><li>• Enthusiastic learner with a foundation in advanced statistical techniques and impactful visualizations.</li><li>• Proficiency in data cleaning, transformation, and visualization for meaningful insights from diverse datasets.</li></ul>	
Fundamentals Of Digital Marketing Course Google	Feb 2022 – Apr 2022
<ul style="list-style-type: none"><li>• Completed Google's 'Fundamentals of Digital Marketing' course, gaining expertise in online advertising, web analytics, and data-driven marketing strategies.</li><li>• Acquired essential skills for data analysis, marketing insights, customer engagement, and Google Analytics that align with the requirements of a data analyst role.</li></ul>	

SKILLS

Database Management: SQL Server	Statistical Analysis: Regression Analysis, Hypothesis Testing, A/B Testing
Programming Languages: Python, Java, C , C++, R, SQL	Microsoft Office Suite: Excel, PowerPoint
Relevant Courses: OOPS , DBMS , Data Structure	Machine Learning Frameworks: scikit-learn, TensorFlow, PyTorch, Keras
Data Analysis Tools: pandas, NumPy, SciPy	Adept at working as part of an open and collaborative team structure.
Strong analytical and problem-solving skills with the ability to apply judgment	Knowledge of testing and code review
Continuous Learning: Committed to ongoing professional development and growth	System Architecture: Promoting simplicity and robust design

PUBLICATIONS

Parkways  International Research Journal of Modernization in Engineering Technology and Science	07 May 2023
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LANGUAGES

English	● ● ● ● ●	Malayalam	● ● ● ● ●
Hindi	● ● ● ● ●	Tamil	● ● ● ● ●

INTERESTS

Travelling | Fitness | Nutrition | Self Improvement