**Puthalapattu Sagar – Data Scientist**

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[LinkedIn](https://www.linkedin.com/in/sagar-puthalapattu/) | [GitHub](https://github.com/sagarputhalapattu/) | [Medium](https://medium.com/@s81485425/the-impact-of-artificial-intelligence-on-finance-revolutionizing-the-financial-industry-01114e5b2e62)

**Professional Summar** Experienced Data Scientist with expertise in big data technologies, machine learning algorithms, and data modeling, adept at delivering analytical insights to support data-driven decision-making. Proven ability to analyze large datasets using Spark, Hadoop, and other big data tools, enhancing data efficiency and driving impactful solutions in healthcare and other data-intensive domains.

# **Education**

Sri Venkateswara Engineering College 08/2019 – 03/2023 | Tirupati, India

Bachelor’s Degree, Information Technology

CGPA: 70.0 / 10.0

* Relevant Coursework: Machine Learning, Data Modeling, Big Data Analytics
* Projects: Developed a predictive model for healthcare data using K-Means clustering and Random Forest algorithms

# **Technical Skills**

* Programming Languages: Python, R, SQL
* Big Data Technologies: Spark (MLlib), Hadoop Ecosystem (HDFS, Hive, Pig)
* WEB Frameworks: Flask, Fast-API,
* Machine Learning Algorithms: Linear & Logistic Regression, Time Series Analysis, Support Vector Machine (SVM), K-Means Clustering, K-Nearest Neighbors (KNN), Decision Trees, Random Forest, Naive Bayes, Principal Component Analysis (PCA), Singular Value Decomposition (SVD), Artificial Neural Networks (ANNs), Association Rules, Genetic Algorithm, Bagging and Boosting Techniques
* Data Processing & Analysis: Statistical Analysis, Hypothesis Testing, Data Modeling, Schema Design, Data Transformation
* Data Visualization: Power BI, Excel, Matplotlib, Seaborn
* Cloud Platforms: Azure, AWS, Google Cloud Platform (GCP)
* DevOps & Deployment: CI/CD, Docker, Kubernetes, Flask API, FastAPI
* API & Testing Tools: Postman
* Soft Skills: Effective Communication, Decision-Making, Team Collaboration, Problem-Solving, Adaptability

**Professional Experience & Projects**

**[**[**Link**](https://acrobat.adobe.com/id/urn:aaid:sc:ap:799e919e-041b-4f8c-8d03-aa63bbb7596d)**]| Data Science Intern - Cognifyz Technologies** 03/ 2024 – 09 /2024| Hyderabad

* Collected, processed, and managed large datasets, improving data quality and accessibility, resulting in a 25% increase in data processing efficiency.
* Implemented data administration strategies, resolving systemic errors and improving data usability by 20%, providing critical insights for strategic business decisions.
* Delivered actionable insights to stakeholders, aligning project goals and increasing project success rates by 15%, ensuring timely data delivery and optimal performance measurement.
* Collaborated with cross-functional teams to process large-scale datasets, implementing data processing solutions with Spark, leading to a 25% improvement in data accessibility and processing time.

**[**[**Link**](https://github.com/sagarputhalapattu/projects/tree/main/Customer_Churn_Model_using_BERT_CICD_Integration)**] |Customer Churn Model Using BERT and CI/CD Integration**

* Increased churn prediction accuracy by 18% within six weeks, helping the company reduce customer churn by enabling timely interventions.
* Automated the deployment pipeline using Databricks and Azure DevOps, reducing manual intervention time by 40% and improving overall efficiency.
* Provided insights that boosted retention strategies by 10%, directly impacting customer satisfaction rates
* Applied machine learning algorithms like Logistic Regression and Decision Trees to refine churn prediction models, increasing predictive accuracy by 18% and reducing churn through proactive customer retention.

**[**[**Link**](https://github.com/sagarputhalapattu/projects/tree/main/files)**]|Real-Time Object Detection System Using YOLO and Python**

* Achieved 90% detection accuracy in real-time applications, delivering performance improvements 20% faster than expected due to Flask/FastAPI integration.
* Reduced latency by 20%, improving real-time performance and allowing the system to be deployed in real-world scenarios with minimal lag.
* Completed the project 15% ahead of schedule, meeting client demands and improving deployment timelines.

**[**[**Link**](https://github.com/sagarputhalapattu/projects/tree/main/LangChan_LLM_RAG)**]|Q&A System for Finance Documents Using Azure and RAG Model**

* Enhanced document processing efficiency by 30%, reducing manual labor by 10+ hours per week within the first month of implementation.
* Increased data retrieval speed by 20%, significantly improving query response times for the finance team.
* Automated document handling, boosting overall team productivity and reducing error rates across departments by 12%.

**Awards and Certifications**

* **Hacker Rank Python** [**Certification**](https://github.com/sagarputhalapattu/Certification/blob/main/Python%20Certificate)
* Demonstrated proficiency in Python fundamentals, including data structures, algorithms, and problem-solving
* techniques. Earned a top score, validating strong programming and coding skills.
* **Hacker Rank SQL (Intermediate)** [**Certification**](https://github.com/sagarputhalapattu/Certification/blob/main/sql_intermediate%20certificate.pdf)
* Proved ability to work with complex SQL queries, focusing on data manipulation, joins, subqueries, and
* analytical functions. Certified for intermediate-level SQL expertise and database management.
* **Cisco** [**Certified**](https://github.com/sagarputhalapattu/Certification/blob/main/Cisco%20Certification%20.pdf) **Data Analyst**
* Acquired hands-on experience in analysing real-world data sets and performing data-driven decision-making.
* Conducted multiple projects using statistical analysis, data visualization, and reporting techniques.
* Gained proficiency in data manipulation, data cleaning, and implementing automation for data workflows.
* **Generative AI** [**Certification**](https://github.com/sagarputhalapattu/Certification/blob/main/Puthalapattu%20Sagar%20(1).pdf) **– Great Learning**
* Completed a comprehensive course on Generative AI, covering techniques like GANs, autoregressive models, and
* transformers. Gained hands-on experience in building and deploying AI models for various applications.
* **Big Data Certification**: Demonstrated proficiency in Hadoop, Spark, and other big data tools for large-scale data processing.
* **Machine Learning Certification**: In-depth understanding of algorithms including SVM, PCA, and Neural Networks, focusing on practical applications in data analysis and model building.