Santhosh Uppuluri

+1 9803224017 | **santhoshvaraprasad.u@gmail.com** |

TECHNICAL SKILLS

Programming Languages	: C, C++, Java, Python, R, JavaScript, Scala
Databases	: MySQL, Oracle SQL, NoSQL, DynamoDB
Web Technologies	: HTML5, CSS3, XML, Angular, React
Big Data Technologies	: Apache Spark, HIVE
Cloud Services	: AWS (Lambdas, CloudWatch, CloudTrail, EC2, S3, ECS, EKS)
Containerization	: Docker, Kubernetes
Software and Tools	: Git, Jenkins, Maven, Gradle, Salesforce, Data Analytics, APM & Observability Tools (Datadog, Prometheus, Grafana)
IDEs	: Eclipse, STS, IntelliJ
Frameworks	: Spring MVC, Spring Boot
Data Engineering	: Experienced in data design, database architecture, metadata management, and repository creation. Capable of developing data architecture solutions, designing and building dimensional database schemas and Tableau.

WORK EXPERIENCE

Data Scientist Intern | Celinoid   May 2023 - July 2023

- Spearheaded a comprehensive sales data analysis project, employing advanced analytics to uncover key trends, directly contributing to a 15% increase in marketing campaign effectiveness.
- Architected and maintained a dynamic Power BI dashboard for real-time monitoring of customer engagement, significantly enhancing customer service responsiveness.
- Instrumental in the ideation and conceptualization of a predictive maintenance model for manufacturing operations, leveraging cross-functional insights.
- Designed augmented decision-making tools that seamlessly integrated with CRM systems, optimizing customer relationship management processes.
- Applied expert knowledge in mathematics and statistics to streamline supply chain operations, achieving a notable 10% cost reduction in logistics.
- Developed a predictive model for network traffic management, assisting the IT department in optimizing bandwidth usage and network performance.
- Led a big data project to identify and rectify inefficiencies in warehouse operations, enhancing productivity and throughput by 25%.
- Crafted a machine learning model in Python to forecast customer churn with 85% accuracy, demonstrating significant predictive capabilities.

Systems Engineer | Tata Consultancy Services   August 2021 - May 2022

- Pioneered predictive modeling initiatives using Python and R, boosting business process efficiency by 25% through enhanced data-driven strategies.
- Developed and managed a comprehensive analytics framework to tackle complex business challenges, employing machine learning and statistical analysis to refine predictive accuracy.
- Ensured project success through effective collaboration with cross-functional teams, aligning data solutions with business objectives and client expectations.
- Mentored junior data scientists, fostering a culture of innovation and continuous improvement, which enhanced team performance by 15%.
- Managed extensive datasets utilizing SQL and NoSQL databases, optimizing data operations to reduce retrieval times by 35%.
- Employed Tableau and Power BI for advanced data visualization, facilitating clear communication of insights to stakeholders and supporting informed decision-making.
- Engineered robust machine learning pipelines in cloud environments (AWS/GCP), achieving 99.5% uptime for critical analytics applications.
- Engaged in the research and implementation of cutting-edge technologies, such as neural networks and NLP, to maintain a competitive edge.
- Utilized Apache Spark and HIVE for efficient big data processing, enhancing data analysis capabilities and efficiency by 20%.

Software Development Intern | Netcracker Technology | Feb 2021
- Actively participated in the development and configuration of the Rating Billing Management Application using core Java and J2EE, contributing to the successful deployment of critical components.
- Leveraged Hibernate/JPA for efficient database management, optimizing data retrieval and storage processes for improved system performance.
- Utilized HTML, CSS, JavaScript, and jQuery to design and enhance user interfaces, resulting in a more user-friendly and visually appealing application.
- Collaborated with the team on customization and enhancement of pre-existing APIs, along with the implementation of new features using RESTful APIs. These efforts significantly enriched the application's functionality and user experience.
- Demonstrated proficiency in version control using Git and gained hands-on experience with IntelliJ IDEA as an IDE. Additionally, utilized Maven as a build tool, ensuring a streamlined and efficient development process.
- Executed comprehensive testing procedures using JUnit to ensure the quality and reliability of the software. Identified and resolved technical issues to maintain the integrity of the application. Actively participated in team meetings, contributing effectively to discussions, and demonstrating strong problem-solving skills.

PYTHON PROJECTS:

Let's Ride Carpooling Application, Dec 2023
- **Technologies Used**: Python, Tkinter, Custom Tkinter, Smptlib, Twilio, MySQL, CustomTkinter
- Developed a carpooling application using a technology stack that includes Python, Tkinter, Custom Tkinter, Smptlib, and Twilio. The application aimed to streamline and enhance the carpooling experience by providing a user-friendly interface built with Tkinter and custom Tkinter components. Additionally, integrated Smptlib for email communication and Twilio for efficient communication and notifications within the carpooling community. The project showcased strong technical skills and a commitment to creating solutions that improve transportation efficiency and user experience.

Movie Mate, Nov 2023
- **Technologies Used**: Python, Tkinter, Custom Tkinter, MySQL
- Movie Mate, developed in November 2023, is a sophisticated movie booking and recommendation application. It boasts a sleek user interface crafted with Tkinter and custom components for an intuitive user experience. The system includes a dynamic movie booking feature powered by MySQL, ensuring real-time updates on movie availability. Users can seamlessly browse listings, select showtimes, and book tickets.

Event Magnet, Nov 2023
- **Technologies Used**: Python, Tkinter, Custom Tkinter, Smptlib, MySQL
- Harnessing the power of Python, Tkinter, Custom Tkinter, Smptlib, and MySQL, this project redefines the event organizing landscape. Python's versatility lays the foundation for a responsive and dynamic user interface, while Custom Tkinter components enhance visual aesthetics, creating a cohesive and branded experience. The integration of Smptlib streamlines email communication, facilitating efficient participant engagement. Meanwhile, MySQL ensures secure and efficient data management, guaranteeing the integrity of participant information throughout the event lifecycle. Event Magnet stands as a technological tour de force, offering a seamless and personalized event registration and hosting solution.

DATAVISULIZATION PROJECTS:

IPL Runs Analysis:

Delving into the realm of data analytics and visualization techniques applied to the Indian Premier League (IPL). Using the powerful Tableau tool, the study focuses on enhancing decision-making processes, particularly in team selection, by providing comprehensive insights into player performance. Through interconnected data, feature selection, and three insightful dashboards catering to management, player perspectives, and team performance, the project offers a practical and nuanced approach to navigating the

complexities of IPL cricket. Highlights include a systematic literature review, emphasis on Tableau's role, and future work possibilities such as expanding datasets to include broader cricket competitions.

Superstore Sales & Profit Analysis:

This data visualization technique analyzes sales and profit data from a retail superstore. The project is designed to offer valuable insights to business stakeholders, decision-makers, and analysts involved in optimizing sales strategies and profitability. Utilizing visualization tools, such as Tableau or similar platforms, the study presents a series of dynamic dashboards that visually represent key metrics, trends, and patterns in the superstore's sales and profit data.

EDUCATION

- Master of Science in Information Technology, Central Michigan University, USA
- Bachelor of Technology, Electronics and Communication Engineering, CMR Institute of Technology, India
- Diploma in Electronics and Communication Engineering, Sasi Institute of Technology, India

Additional Coursework:

Software Engineering	**:** Agile, Scrum
Data Structures	**:** Arrays, Linked Lists, Stacks, Queues, Trees, Graphs
Advanced Java	**:** Multithreading, Generics, Collections
Machine Learning	**:** Supervised Learning, Unsupervised Learning, Scikit-Learn, TensorFlow
Cloud Computing	**:** AWS, Azure, GCP

PUBLICATION

Gesture to Speech Smart Hand Glove, Institute of Electrical and Electronics Engineers **(IEEE),** Santhosh Uppuluri, Sriram Attluri. 2019

AWARDS & ACHIEVEMENTS

- **Reimagine Hackathon Winner, Central Michigan University (2023**): Developed "Nav Central," an innovative campus navigation application that secured top honors in the fiercely competitive Reimagine Hackathon, demonstrating my practical application of software development skills to solve real-world challenges.
- **Social Media Coordinator, Indian Student Association, Central Michigan University (2023):** Led the management of the association's social media platforms, showcasing adeptness in digital communication, content creation, and engagement with a diverse community.
- **Global Finalist, Code Gladiator Contest 2021 by Cognizant (2021):** Demonstrated exceptional coding proficiency and problem-solving acumen by advancing to the global finals of the Code Gladiator Contest. This competition, renowned for its complexity, showcased my ability to excel in one of the most challenging programming contests worldwide.
- **Salesforce Trailhead 'RANGER' Badge Recipient (2021):** Attained the highest rank on Salesforce Trailhead, signifying an extensive mastery of Salesforce technologies and a relentless commitment to continuous learning and skill development in the ever-evolving tech landscape.
- **Treasurer, IEEE Student Branch, CMRIT, Hyderabad (2021):** Effectively managed finances and coordinated successful fundraising events in my role as Treasurer for the IEEE Student Branch.
- **Founder, Erudite Club, CMRIT, Hyderabad (2022):** Pioneered the establishment of the Erudite Club, fostering intellectual discussions and debates within the campus community, demonstrating leadership skills and a commitment to creating a vibrant learning environment.