

About Sudarsan Nallur Murali

Personal Background

Sudarsan Nallur Murali, hailing from Krishnagiri, Tamil Nadu, India, spent most of his formative years in Chennai, a city he fondly calls home.

Currently residing in Hartford, Connecticut, USA, Sudarsan is an Indian national with a deep-rooted connection to his culture and heritage.

Education

Sudarsan has an impressive academic background, having pursued a Bachelor of Technology (B.Tech) in Computer Science Engineering from SASTRA Deemed University, where he graduated in June 2021.

Currently, he is furthering his education by pursuing a Master's in Business Analytics and Project Management at the University of Connecticut, with his graduation slated for May 2025.

In addition to his formal education, Sudarsan has earned certifications to enhance his skill set, including Python (Intermediate) and SQL, both from Datacamp.

His academic and professional endeavors are complemented by his participation in various relevant projects and research, as detailed in his resume.

Professional Background

Sudarsan began his professional journey as a Data Associate Engineer at Collins Aerospace, based in Bengaluru, Karnataka, India.

In this role, he demonstrated exceptional talent and dedication, earning accolades such as the Best Fresher Award and multiple 5-star awards within the organization.

His contributions have showcased his ability to integrate technical expertise with practical applications in the aerospace sector.

Personal Traits

Sudarsan is known for his strengths, which include being dedicated, hardworking, consistent, nurturing, analytical, logical, punctual, and committed.

These attributes have not only defined his personal and professional interactions but have

also established him as a reliable and impactful individual.

He possesses leadership qualities and is rational and pragmatic in his approach to problem-solving.

Sudarsan's hobbies and interests reflect his curiosity and drive for self-improvement; he enjoys reading non-fiction books on topics such as finance, leadership, communication, negotiation, and self-help.

In his free time, he indulges in swimming and playing cricket, balancing his intellectual pursuits with physical activities.

Physical and Mental Wellness

Sudarsan is committed to maintaining a healthy lifestyle. His fitness goals include regular visits to the gym, swimming, and playing cricket, which keep him physically active and energetic.

He incorporates healthy eating habits into his daily routine, ensuring a balanced approach to physical wellness.

To manage stress, Sudarsan practices meditation, active thinking, journaling, and engaging in meaningful conversations with friends.

These practices not only help him stay centered but also contribute to his mental resilience and overall well-being.

Projects and Goals

Sudarsan is currently working on various projects that align with his expertise and aspirations, as detailed in his resume.

His short-term goals include gaining extensive knowledge in the fields of business analytics, data engineering, generative AI, and related domains.

He aims to become an integral part of a dynamic and innovative team where his skills and insights can drive impactful results.

Looking ahead, Sudarsan envisions himself as a leader or consultant in a reputed multinational management company.

His long-term aspirations reflect his ambition to make meaningful contributions to the

industry while continuously evolving in his career.

Achievements and Recognition

Sudarsan's professional journey is marked by several notable achievements, including the Best Fresher Award and multiple 5-star awards at Collins Aerospace. These accolades underscore his commitment to excellence and his ability to deliver outstanding results in his professional endeavors.

Fun and Unique Facts

Beyond his professional and academic accomplishments, Sudarsan has a unique sense of humor, often showcasing his talent for sarcasm. He is known for his persistence, never leaving a task unfinished. His adventurous spirit is evident in his love for hiking, where he enjoys leading trekking groups and pushing himself to be the first to reach the summit.

In addition, Sudarsan has a passion for solving math problems, which reflects his analytical mindset and enjoyment of intellectual challenges.

Extracurricular Activities

Undergraduate Experience

In his first year of undergraduate studies, Sudarsan joined the marketing and sales team, an experience that profoundly changed his life. His enthusiasm and dedication to the team led him to secure numerous sponsorships for the university festival, significantly boosting its budget and allowing for more grandiose events. This role also honed his ability to interact with C-suite executives and managers, building meaningful connections through shared ideologies and a mutual love for business.

Sudarsan's marketing skills earned him an interview for the head of the team in his second year. However, a lack of understanding of team politics and management styles led to a missed opportunity. This experience fueled his desire for personal growth and leadership. He began reading extensively on leadership, team politics, and personal development, equipping himself with the knowledge necessary to take on leadership roles. By his third year, Sudarsan became the head of the marketing and sales team, embodying the philosophy that leadership is not just on the field but a way of life. He believes that being a leader means thinking about the greater good in every aspect of life.

Graduate Experience

During his master's program, Sudarsan took on a part-time job in dining services. His dedication and people skills earned him a promotion to dining hall supervisor within a year. He is also ServSafe certified, qualifying him to manage food services operations, including hotels, dining halls, and other food-serving platforms.

As a supervisor, Sudarsan manages a dining hall that serves food to 3,000 students daily, across 10 stations with approximately 25 workers. He oversees the training and integration of newly joined full-time staff and collaborates with full-time managers to ensure smooth business operations. His leadership in this role reflects his ability to manage large teams and complex operations effectively.

Technical Skills

Sudarsan possesses a diverse range of technical skills that highlight his expertise in programming languages, machine learning frameworks, tools, and management methodologies. He is proficient in programming languages such as C, C++, C#, Java, Python, R, SQL, CSS, and HTML. His experience in machine learning and NLP frameworks includes NLTK, Pandas, TensorFlow, Matplotlib, PyTorch, SciKit-Learn, NumPy, and NLP.

He is well-versed in tools and IDEs such as DBeaver, SAS, JMP, Jupyter Notebook, RStudio, GitHub, Azure Databricks, Atlassian JIRA, and Visio. Additionally, Sudarsan has developed strong management skills, including project management, Agile methodology, budget planning, documentation, quality assurance, and risk management.

His coursework includes topics such as Data Management, Statistics in Business Analytics, Predictive Modeling, Visual Analytics (Tableau), Business Decision Modeling, Data Science (Python), and Data Mining (Forecasting & Text Mining).

Professional Experience

Sudarsan has a strong professional background with roles that showcase his technical and leadership abilities.

Gen AI Developer Intern - Ananda AI

During his tenure at Ananda AI in Hartford, Connecticut (Aug 2024 - Dec 2024), Sudarsan created a chatbot using LLMs like Llama3-8b-8192, enhancing user engagement with real-time cryptocurrency answers. He implemented a Retrieval-Augmented Generation (RAG) pipeline that integrated proprietary data with Langchain, achieving 90% log traceability and improved response accuracy. He also deployed the chatbot on a cloud-based architecture with FAISS and PyPDF, reducing data retrieval time by 40% and boosting processing speed by 25%.

As part of his role, he engineered over 50 technical indicators, such as SMA, EMA, RSI, MACD, and Bollinger Bands, using TA-Lib for robust trading signals. Through Backtrader, he optimized trading strategies, achieving a 13% annualized return and an improved Sharpe ratio. In addition, Sudarsan led a team of 10 as the primary sponsor liaison, ensuring seamless project updates and stakeholder alignment.

Associate Data Engineer - Collins Aerospace

At Collins Aerospace, Bengaluru, India (Jul 2021 - Jul 2023), Sudarsan automated 62% of test cases, significantly reducing manual intervention and saving \$20,000 annually. He collaborated with stakeholders to test production releases, designed workflows comprising 631 test cases, and ensured 100% client satisfaction.

Graduate Trainee Analyst - Collins Aerospace

As a Graduate Trainee Analyst (Feb 2021 - Jul 2021), Sudarsan managed over 30 relational database tables using SQL to derive actionable insights. He worked in a fast-paced Agile environment, resolving bugs, validating fixes, and delivering high-quality projects under tight deadlines.

Academic Projects

Cryptocurrency Price Prediction

Sudarsan delivered a 77% accuracy in predicting cryptocurrency price movements, with a recall of 91% in positive cases. Using SciKit-Learn and TensorFlow, he employed advanced machine learning techniques like Random Forest and sequence processing, improving model accuracy by 15%. He reduced model runtime by 30% using techniques like permutation importance and partial dependence plots.

Advanced Job Post Analytics for Optimized Classification

In this project, Sudarsan extracted, cleaned, and preprocessed data from over 19,000 job postings. He implemented NLP techniques such as tokenization, TF-IDF vectorization, and lemmatization. His machine learning model achieved an accuracy of 91.8% and precision of 92.3% using Random Forest, improving accuracy by 7% with optimized NLP techniques.

Activities and Achievements

Sudarsan has been recognized for his exceptional contributions and achievements. He served as Supervisor at UConn Dining Services, received the Best Fresher Award at Collins Aerospace, and represented Planet Education as a Campus Ambassador. Additionally, he spearheaded the marketing and sales team for DAKSH, showcasing his leadership and organizational skills.