SAI SANDEEP ILLURI

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CAREER OBJECTIVE

To advance technology through AI and Data Science, focusing on optimizing maritime supply chain operations, finance and autonomous vehicles. With experience across various domains, I am eager to contribute by driving efficiency and enhancing decision-making through advanced analytics and machine learning.

LANGUAGES

English - Proficient | Telugu - Proficient | Hindi - Basic Proficiency | Tamil - Basic Proficiency | German - Basic Proficiency

EDUCATION

National University of Singapore, Singapore, *Masters in Maritime Technology and Management* 🔗 Aug 2024 - Current

Vellore Institute of Technology, Bangalore, India, *Post Graduate Program (Data Science)*🔗 Aug 2023 - Jun 2024
CGPA - 10/10

- **Relevant Coursework:** Probability and Statistics, Python for Data Analytics, Database Management Systems, Machine Learning, Data Visualization and Communication, Data Mining, Deep Learning, Big Data Analytics, Fundamentals of AI.

Vellore Institute of Technology, Vellore, India, *Bachelor of Technology in Mechanical* Engineering 🔗 Jul 2019 - Aug 2023
CGPA - 8.15/10

Sri Sarada Junior College, Vijayawada, India, *Class XII (State Board), MPC* 🔗 Jun 2017 - Apr 2019
CGPA - 9.94/10

Dr. KKR's Gowtham International School, Vijayawada, India, *Class X (CBSE)* 🔗 Jun 2016 - May 2017
CGPA - 10/10

PROFESSIONAL EXPERIENCE

KuppiSmart Solutions, Hyderabad, India, *AIML Developer (Domain Head) - Remote* 🔗 Jun 2024 - Current

- Recruited a team of 6 from over 1000 applicants, and involved in team management and leadership
- Conducted research to understand key parameters impacting the poultry sector.
- Created Algorithms using AI and Data Science Technologies for developing prediction systems based on parameters.

Fraternity of Mechanical and Automotive Engineers (FMAE), Hyderabad, India, *Intern - Onsite* 🔗 Feb 2023 - Mar 2023

- Orchestrated the design process, utilizing software for calculations and simulations.
- Fabricated the designed prototype components through hands-on welding, cutting, and grinding.
- Assembled, connected, and tested the prototype, incorporating motors, batteries, and controllers.

National University of Singapore, Singapore, *Research Intern - Hybrid* Dec 2022 - Apr 2023

- **Data Analytics Training,** NUS - Onsite 🔗: Trained in Data Analytics, Machine Learning and Deep Learning.
- **Big Data Training,** Hewlett Packard Enterprise - Onsite 🔗: Performed Data Engineering on various datasets.
- **Research project,** NUS - Remote 🔗: Applied ML techniques on cancer genome data to predict genetic changes influencing cancer susceptibility.

RINL Vizag Steel Plant, Vizag, India, *Automobile Intern - On-Site* 🔗 May 2022 - Jun 2022

- Researched technological advancements in the automobile industry at the Field Machinery Department.
- Acquired practical insights into industrial operations, supply chain analytics and the complete production of steel.

PROJECTS

Machine Learning-Driven Shipping Time Prediction for Global Logistics 🔗 Dec 2023 - Jan 2024

- Created a predictive tool for shipping transits to estimate port arrival dates, prioritizing metrics and runtime efficiency .
- Secured an accurate linear regression model, contributing to waste reduction and lower carbon footprint.

Focus Area: Supply Chain Optimization, Maritime; Tools: Python, Tableau

Forecasting YouTube Views using Machine Learning Insights 🔗 Nov 2023 - Dec 2023

- Conducted analysis on YouTube video dynamics and feature correlations, employing various ML models.
- Attained a high level of accuracy with the XGB Model with minimized prediction errors, enhancing strategy optimization.

Focus Area: Supervised Learning, Data Visualisation; Language: Python

Exploration and Analysis of Stock Market: Insights, Visualization, and Risk Assessment 🔗 Jun 2023 - Aug 2023

- Utilized Python libraries for financial data extraction and analysis in the automobile industry.
- Generated comprehensive stock insights using visualizations, and time series models, aiding strategic decisions.

Focus Area: Time series analysis; Tools: Python, R, Minitab

Algae Cleaning Drone: Image Clustering for Algae Type Identification 🔗 Aug 2022 - Dec 2022

- Developed a Raspberry Pi camera-equipped drone for algae cleaning, incorporating a flexible K-Means clustering model.
- Achieved accurate color quantization for algae identification and growth mitigation, supporting aquatic ecosystem balance.

Focus Area: Unsupervised Learning, Computer Vision; Language: Python

PUBLICATIONS

Comparison of ML Algorithms and Neural Networks on Fault Diagnosis of a Worm Gear 🔗 28 Jan 2024

Journal of Vibration Engineering & Technologies, Springer Link

FUNCTIONAL SKILLS

Data-driven decision-making, Machine Learning, Maritime, Supply Chain Analytics, Team Leadership

TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, Matplotlib, SciPy, Scikit-learn, Tensorflow, PySpark etc), Matlab
R (dplyr, ggplot2, tidyr, stats, etc) | **Databases:** MySQL, BigQuery | **Engineering Design:** Fusion 360, Solidworks, AutoCAD
Data Analysis and Statistical Tools: Tableau, PowerBI, Minitab, MS Excel | **Others:** MS Office Suite, Figma

COURSES AND CERTIFICATIONS

Google Data Analytics 🔗- Google, Coursera | **Data Analytics for Lean Six Sigma** 🔗- University of Amsterdam, Coursera
Machine Learning 🔗- DeepLearning.ai, Coursera | **Algorithms** (Ongoing) 🔗**-** Stanford University, Coursera

ORGANIZATIONS AND EXTRACURRICULARS

SVSP Technologies (Subject to Change), *Founder* - Directing the establishment and development of a startup, overseeing the optimization of a data-driven productivity application.

Sahiti TLA, *Club executive* **-** Actively took responsibility for team management, recruitment, volunteering, and technical aspects within the club. Performed as a dancer at the Annual Fest “Riviera 2020” and other cultural events.

Chronic Urban Poverty, *Documentarian* **-** Documented the adversities faced by my local slum residents to raise awareness.