Sachin Suresh

Southampton, UK • sacchinsureesh10@gmail.com • (+44) 7776741302
https://sachinsuresh10.github.io/ | https://www.linkedin.com/in/sachin-suresh10/ | https://github.com/sachinsuresh10

PROFILE

Data Science graduate with a strong background in Computer Science and hands-on experience in data analytics and software engineering. Proficient in Python, R, and SQL, with expertise in machine learning, statistical analysis, and data visualisation using tools such as Power BI and Google Analytics. Proven ability to analyse complex datasets, develop predictive models, and deliver actionable insights through practical experience and academic projects. The uniqueness of the Analytics and Data Science program lies in its intersection of Engineering, Humanities, Arts, Social Sciences, and Management, setting me up for a continuous journey of learning.

EDUCATION

University of Southampton, Southampton, United Kingdom **Sep 2023- Sep 2024**
MSc in Data and Decision Analytics

Dr. Ambedkar Institute of Technology, Bangalore, India **Jul 2017-Aug 2021**
Bachelor of Engineering in Computer Science & Engineering

CGPA: 8.74/10

EXPERIENCE

LTIMindtree, Bengaluru, India **August 2021 - October 2023**
Software Engineer

- Developed the NGLora USA project for L'Oréal using Salesforce Commerce Cloud (SFCC), enhancing website functionality and user engagement.
- Gained a deep understanding of SFCC/SFRA structure, code, file structure, and ISML.
- Updated and restructured product finder quizzes, resulting in a 20% increase in user interaction and completion rates.
- Enabled loyalty features across 10 L'Oréal brands, contributing to a 25% boost in customer retention.
- Managed and resolved over 50 project tasks using JIRA, ensuring timely and organised project execution.
- Collaborated with internal and external stakeholders to streamline development processes, reducing project turnaround time by 15%.

TECHNICAL SKILLS

Data Science: Machine learning, Pattern &Trend identification, Probability, and Statistics.
Analytics & Visualisation Tools: PowerBI, Microsoft Excel, Google Analytics
Languages: Python, R, C, C++, SQL, JavaScript, HTML, CSS.
Libraries: Numpy, Pandas, Matplotlib, Seaborn, Keras, Tensorflow, ComputerVision, ggplot2, dplyr, tidyr, randomForest.
Databases: MySQL, MongoDB, SQL Server
Cloud: Salesforce Commerce Cloud(SFCC),AWS(EC2,Sagemaker,S3).
Soft Skills: Communication, Problem Solving, Critical thinking, Collaboration, Adaptability.

ACADEMIC PROJECTS

Development of a Hybrid Data Collection Platform for Football Player Analytics- Quantum Sport Analytics

- Currently developing a model to enhance football player analytics using machine learning. Our approach involves gathering high-quality video footage and annotated datasets, followed by preprocessing steps like frame extraction and player detection using algorithms such as YOLO and Faster R-CNN. Planning to implement pose estimation models for player movements, use CNNs and RNNs for action recognition, and employ LSTM and Transformer models for contextual and temporal analysis. This project aims to provide comprehensive insights into player performance through advanced data collection and analysis techniques.

Data Analysis and disaster

- Successfully acquired and pre-processed disaster data, using Random Forest imputation to handle missing values and Principal Component Analysis (PCA) for dimensionality reduction, enhancing overall data analysis efficiency. Achieved 98.6% accuracy in disaster classification with XG Boost, demonstrating the effectiveness of advanced classification algorithms.

Road Sign Detection using ML and IoT based rover

- Developed an integrated system utilising a Bluetooth-controlled rover equipped with a camera for real-time road view, transmitting live feeds to a server for OpenCV-based road sign recognition using a trained model, which autonomously commanded the rover and employed Google Text-to-Speech to inform drivers based on detected signs, demonstrating proficiency in machine learning, computer vision, IoT, and real-world deployment.

Forecasting Economic Indicators and FTSE 100 Index

- Conducted comprehensive analysis and forecasting of economic indicators, employing Holt-Winters' and SARIMA models to address seasonality and trends. Developed multivariate regression models integrating key economic indicators to predict the FTSE 100 index, achieving an RMSE of 258.85, and generated actionable insights to support strategic financial decision-making.