# Sachin Suresh

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## 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 and annotation tools. 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

**Data Analyst Intern**                                        **May 2023 - September 2023**
**Quantum Sport Analytics**                                    **London, United Kingdom**

- Developed a hybrid data collection platform for football player analytics using machine learning, **YOLO (v3, v5, v8)** for object detection, and **ByteTrack** for tracking.
- Preprocessed large-scale video datasets with **Roboflow**, optimizing annotation workflows and reducing manual tagging time by 30%.
- Analyzed performance metrics (**precision, recall, F1-score**) to improve object detection accuracy by 20%.
- Implemented **KMeans** clustering for automatic team classification and enhanced camera perspective transformation.
- Collaborated on action recognition research using **CNNs, LSTM, and SuperAnnotate** to predict football player actions.

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

- Developed the NGLora USA project for L'Oréal using **Salesforce Commerce Cloud (SFCC)**, gaining in-depth knowledge of **SFCC/SFRA** structure, **ISML**, and enhancing website functionality and user engagement.
- Updated and restructured product finder quizzes, achieving a 20% increase in user interaction and completion rates while enabling loyalty features across 10 L'Oréal brands, contributing to a 25% boost in customer retention.
- Managed over 50 project tasks using **JIRA**, ensuring timely and organized execution while collaborating with internal and external stakeholders to streamline development processes and reduce turnaround time by 15%.
- Utilized **Business Manager** for site configuration and maintenance, ensuring optimal e-commerce performance and user experience.
- Employed **Bitbucket** for version control, facilitating collaborative development and efficient code management among team members.

## TECHNICAL SKILLS

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

## ACADEMIC PROJECTS

**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.