



Sudarshan Singh

Lead Analyst

A dedicated professional with 9 years of IT experience focused on reaching new avenues by continuously improving skills in the field of Analytics, Data Mining, and Machine Learning. Around 5+ year of experience interpreting and analyzing data in order to drive successful business solutions. Proficient knowledge in statistics, machine learning, mathematics and analytics. Excellent understanding of business operations and analytics tools for effective analyses of data.

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Work Experience

04/2018 – Present

Lead Analyst (CGI, Bangalore)

Tasks/Achievements

- Provided data science and modelling support for business development, strategic application development.
- Defined and developed innovative methodologies for analysis and modelling requirements using machine learning, text analytics.
- Mine and analyze data from different applications, to drive optimization and service improvement for business strategies.
- Developed different graphs and charts to generate actionable insights.

03/2017 – 03/2018

Data Scientist (Aconex, Bangalore)

Tasks/Achievements

- Gained good understanding of Statistical Data Analysis.
- Worked on different machine learning algorithms.
- Worked on text analytics for topic modeling and sentiment analysis.
- Created various tableau dashboards for business requirements and KPIs.
- Used Gephi for network visualizations and graph representation.
- Deployed machine learning algorithms using Docker.
- Managed AWS instances for ML deployment and tableau server.

01/2011 – 03/2017

Senior Software Engineer (CGI, Mumbai)

Tasks/Achievements

- Collaborated closely with different business analysts to understand the requirements.
- Planned and developed the required analytic projects in response to business needs.
- Extracting, aggregating, annotating, and manipulating large financial data sets.
- Developed the ability to work both individually and as a team member.

Education

10/2018 – 10/2020

M.Tech. in Data Science & Engineering

Birla Institute of Technology and Science, Pilani

02/2016 – 02/2017

Advance Management Programme in Business Analytics

Indian School of Business, Hyderabad

06/2007 – 06/2010

Master's in Computer Applications

Madurai Kamaraj University, Madurai, Tamilnadu

Skills & Competences

Business Analysis | Cloud Environments (AWS, Microsoft Azure) | Programming Skills (Python, R, SAS) | Data Visualization Tools (Power BI, Tableau, Opensource Lib) | Opensource ML Frameworks (Scikit-learn, Panda, SciPy, NumPy, Keras, TensorFlow) | ML Development Tools (Anaconda, Docker, RStudio) | SQL | Big Data Ecosystem (Hadoop, Hive, PySpark) | Statistical Data Analysis | Bayesian Statistics | Regression Analysis | Predictive Modeling | Machine Learning | Deep Learning | Forecasting Analysis | Text Analytics

Certificates

Data Science with Python – Datacamp (2019)
Intel Corporation – AI From the Data Center to the Edge (2019)
Complete Python Bootcamp – Udemy (2019)
Post Graduate Diploma in Applied Statistics – IGNOU (2018)
SAS Enterprise Miner, SAS Institute (2017)
Scalable Machine Learning, Berkeley- EDX (2015)
Data Science Specializations, - Coursera (2014)

Achievements

Best Capstone Award, ISB Hyderabad (2017)
APEX Award, CGI Bangalore (2015)
POB Award, CGI Mumbai (2013)
CORONA Award, CGI Mumbai (2012)
Won various Prizes in National Level Technical Symposium (2007 – 2010)

Interests

Internet | Travelling | Driving | Writing | Movies

Work Experiences

Company: - CGI Information System & Management Consultant Pvt. Ltd, Bangalore

Period: April 2018 – Present

Designation: - Lead Analyst

Project #: - Incident Ticket Analytics for AOMS

Project Descriptions: - AOMS is an IT outsourcing business tools to manage various upstream applications and records incidents related to different applications. Incidents are recorded as structured and unstructured data in ServiceNow, which contain various characteristics about the incidents including application name, timestamps, description and the impact of issue. Analyzing such incident tickets becomes a critical task in managing the operations within the agreed upon service level agreement. Ticket analytics is essential to identify anomalies and trends, as well as detect unusual patterns in the operations; such analysis is hard to do manually especially for large accounts with complex organization and scopes.

Tools/Technologies: - Microsoft Azure, Opensource ML Framework (OpenNLP, Scikit-Learn, Pandas, NumPy, SciPy), Python, SQL Server, Tableau

Responsibilities: -

- Defined and developed methodologies for analysis and modelling project requirements.
- Worked closely with senior management and business development leads to plan analytics strategies.
- Analyzed large datasets from different applications to drive optimization for service improvement.
- Provided data science and modelling support for business and application development using machine learning and text analytics.
- Build different PowerBI based dashboards to generate actionable insights for different applications and KPIs.
- Performed different statistical analysis to propose and validate various business development strategies.

Company: - Aconex Construction Management Pvt. Ltd, Bangalore

Period: April 2017 – March 2018

Designation: - Data Scientist

Project #: - Aconex Project Management

Project Descriptions: - Aconex provides a project life cycle manager (PLM) tools with mobile and web-interface to manage civil based construction-based projects. This tool can be accessed by different stack holders. To manage the health of different project workflows was a tedious and manual process. This project aimed to build predictive models to generates different KPIs and manage risks in respective project workflows.

Tools/Technologies: - AWS, Anaconda, Docker, Python, Jupyter Notebook, SQL-Server, JSON, Gephi, Tableau

Responsibilities: -

- Designed and developed different predictive models for the proposed systems.
- Created tableau dashboards for different statistical matrices to get in-depth insights about projects.
- Assisted and managed AWS instances and cloud database for data science and analytics platform.
- Designed and developed python scripts to gather data from web scraping for competitor analysis in different geographical regions.
- Performed network analysis and created network visualizations in Gephi among various organization associated with projects.
- Productionize and automate the delivery of generic and standard analysis so marketing team can quickly provide insights on various high-level segment.

Company: - CGI Information System & Management Consultant Pvt. Ltd, Mumbai

Period: July 2015 – March 2017

Designation: - Senior Software Engineer

Project #: - SmartConnect Asset Health Monitoring System

Project Descriptions: - Shell SmartConnect application is an integrated, enterprise-wide surveillance and condition monitoring system for equipment in different streams. Each stream has millions of sensors which generates data. The current project is to incorporate the analytics models and built a robust solution to predict the failure of the machines in the downstream. The solution helped the client to minimize the downtime of the system and optimize the operating costs and mitigate the other risks.

Tools/Technologies: - Microsoft Azure, Python, Apache Spark, Azure ML Studio, R, Pi, Apache Cassandra, Kafka

Responsibilities: -

- Worked with domain and technical specialist to understand various equipment and sensor's behaviors.
- Designed and implemented data ingestion techniques for real-time data acquisition from various sensors.
- Performed an extensive data studies to understand the statistical behaviors of different machines.
- Build predictive models for system to generate actionable insights to minimize the down time.
- Developed real-time dashboard for adaptive and scalable visual display for machine performance.

- Productionize and automate the delivery of generic and standard analysis so marketing team can quickly provide insights on various high-level segments

Company: - CGI Information System & Management Consultant Pvt. Ltd, Mumbai

Period: March 2014 – July 2015

Designation: - Software Engineer

Project #: - Automatic Adverse Event Detection

Project Descriptions: - Healthcare providers are not always able to identify when adverse events occur as part of care delivery. This automation tool aimed to automate care delivery process by detecting of potential adverse events in accordance to the Institute for Healthcare Improvement's (IHI) guidelines. When adverse events are identified and causal factors addressed, organizations can reduce health care costs and decrease their risk exposure. This tool uses manual chart review methods to identify triggers that indicate harm may have occurred. From there, qualified health professionals review patient charts to determine whether harm occurred, allowing thousands of charts to be scanned and saving time required by manual methods.

Tools/Technologies: - Linux, Cloudera VM, R, RStudio, R-Shiny, Oracle 11g, Apache cTakes, SVN, SQL Developer.

Responsibilities: -

- Participated in designing and development of software using agile development practices.
- Prepared and planned the scalable solutions that create great business impact.
- Coordinate with different functional teams to implement models, processes.
- Performed data analysis, implemented and debugged various operational reports using R-Shiny.
- Developed R-Shiny based dashboard to display analytical analysis, operational and statistical reports.

Company: - CGI Information System & Management Consultant Pvt. Ltd, Mumbai

Period: January 2011 – February 2014

Designation: - Software Engineer

Project #: - Computer Assisted Collection System (CACS)

Project Descriptions: - In banks the major challenges are to reduce operation expenses, control bad debts, increase recoveries and improve all aspects of collection system. This project aimed to streamline processing, enable better management of the collection ecosystem. CACS manages the different workflows, enhanced report generation needed to measure success, Audit process improvements, Improved Agency/Attorney analytics and OCA scorecard. This project helped the client to improve collection strategy and streamline collection workflow which resulted in approx. 55% savings year on year.

Tools/Technologies: - SAS (Base), XML, JCL, VSAM, DB2, SQL, TSO/ISPF, DB2, CSV, MS-Excel.

Responsibilities: -

- Analysis of the functional specifications provided by the client.
- Designed several technical specifications for the provided Functional specifications.
- Developed/Enhanced several impacted modules of the application for implementation of business logic.
- Prepared the test cases, test scenarios and test data for unit testing.
- Involved in SIT and UAT with client and another applications team.

Achievements & Extra Curricular Activities

- Received 'Best Capstone Project' award for CBA batch-6 in 2017 at ISB, Hyderabad.
- Won 'Apex' award in 2015 for the best employee at CGI, Bangalore.
- Won 'Pat on the Back' award in 2013 at CGI, Mumbai for being a key contributor in project.
- Won 'CORONA' award in 2012 at CGI, Mumbai for best performing team.
- Won various prizes at National Level Technical Symposium organized at different educational institutes in Tamilnadu.

Declaration

I, Sudarshan Singh hereby declare that all the facts stated above are true to the best of my knowledge and belief.

Place: Bangalore

Sudarshan Singh