Moloy De

Data Scientist

Contact

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Skills

R

Python

Spark

Statistical Modelling

Machine learning Models

Deep Learning

Personal Details

Date of Birth: 20-03-1966

Nationality: Indian

Dr. Moloy De is senior Data Scientist having around twenty-five years of experience in software industry. He has played role of conceptualizing to design to development of solutions in BI and Analytics area. His experience includes managing teams of business users, developers and other stakeholders in the project besides being a hands-on business analyst and technical architect.

Work History

2018 - 24   **Senior Data Scientist**

IBM, Kolkata, India

2008 - 18   **Senior Tech Specialist**

Tech Mahindra, Kolkata

1997 - 08   **Manager / Designer / Developer / Tester / Support**

TATA Consultancy Services, Kolkata

Education

2007   **Ph D: Statistics**

Calcutta University - Kolkata, INDIA

1991   **MA: Statistics**

University of Rochester - Rochester, NY

1989   **MStat: Statistics**

Indian Statistical Institute - Kolkata, INDIA

1987   **BStat: Statistics**

Indian Statistical Institute - Kolkata, INDIA

Personal Information

- Passport Date Of Issue: 03/18/16
- Passport Place Of Issue: Houston

Assignment List

November 2023	Sustainability Accelerator
February 2022	Audit Automation
October 2021	TNC CSR
February 2021	Rockwell Automation
October 2020	Aveda Foundation
April 2019	Malaysian Airlines
November 2018	Anthem
June 2018	DAHD
April 2016:	AT&T
February 2016:	GE Oil and Gas
February 2015:	Johnson & Johnson
February 2014:	GE Oil and Gas
December 2012:	Analytics Competency
July 2010:	MTN BI (SAS) Senior Project Manager
May 2008:	Business Intelligence Solutions Group
November 2007:	Ab-Initio Centre of Excellence
January 2006:	British Telecom, 21CN Development Project in UNIX / Ab-Initio
March 2003:	British Telecom, CDMC Development Project in UNIX / Ab-Initio
October 2002:	P&O Stena Line, Dolphin Merge Project in VAX
April 2001:	P&O NSF, Maintenance Project in VAX
November 2000:	Cunningham Lindsey, Development Project in EJB
February 2000:	WIAS, Development and Support Project in SPAN
July 1999:	ABSA NEWFIN, Development Project in IMS COBOL
March 1999:	TATA TEA, Audit of Y2K Conversion Project
December 1997:	SWEB, Y2K Conversion Project
August 1997:	J. P. MORGAN, Conversion Project
June 1997:	DEC, Y2K Pre Pilot Project

Selected Assignment Details

Project	Sustainability Accelerator
Customer	IBM Internal
Period	November 2023 – March 2024
Location	Kolkata, India
Description	IBM got into the problem of classifying residential and non-residential buildings from satellite data for India. This is a part of the project Sustainability Energy for All of IBM Internal.
Role	Data Scientist
Responsibilities	➢ Accumulate Data Points ➢ Develop Machine learning Model for Classification

Project	Fire Prediction in Punjab and Haryana
Customer	TNC India
Period	October 2021 – December 2021
Location	Kolkata, India
Description	IBM took up a CSR Project for TNC (The Nature Conservancy) India to analyse and predict crop burning pollution in Haryana and Punjab in India.
Role	Data Scientist
Responsibilities	➢ Developed Decision Tree to classify scenarios ➢ Developed forecasting models for future trends ➢ Contribute in Tableau dashboards

Project	Educational Chat Bot for Aveda Foundation
Customer	Aveda Foundation
Period	October 2020 – April 2021
Location	Kolkata, India
Description	Aveda Foundation approached IBM for creating an app that will be used in teaching English to students. A chatbot will run with whom student will converse in English and future course of learning will be recommended without any human intervention.
Role	Data Scientist
Responsibilities	➢ Design Python NLP to assess student responses ➢ Designed Machine Learning Models for scoring responses ➢ Contribute in Chatbot storyboard

Project	**Malaysian Airlines**
Customer	Malaysian Airlines
Period	April 2019 – July 2020
Location	Kolkata, India
Description	IBM Applied Decision Tree technique to design Discount Rules for Malaysian Airlines flights
Role	Data Scientist
Responsibilities	➢ Python coding to decipher Decision Tree Rules ➢ Prepare input for PySpark code ➢ Rule Testing

Project	**Anthem**
Customer	Anthem Medical Insurance
Period	November 2018 – February 2019
Location	Kolkata, India
Description	Anthem applied Statistical Models in detecting outliers to improve data quality
Role	Data Scientist
Responsibilities	➢ Data Quality ➢ Threshold Management ➢ Predictive Analysis

Project	**DAHD**
Customer	Internal
Period	June 2018 – November 2018
Location	Kolkata, India
Description	IBM has a huge reserve of project related data. They want to churn out information like future project status, causes of project failures etc. We used analytical algorithms in R to carry out the objective.
Role	Data Scientist
Responsibilities	➢ Data Quality ➢ Root Cause Analysis ➢ Predictive Analysis

Project	**AT&T Wi-Fi Data**
Customer	AT&T
Period	April 2016 – December 2017
Location	Atlanta, Georgia
Description	AT&T is building a wi-fi based analytics tool that will provide demographic profiling of the visitors in a store with AT&T Router. AT&T needed a Data Scientist to help them out to dig out information buried in their Big Data setup.
Role	Data Scientist
Responsibilities	➢ Data Quality ➢ Feature Enhancements ➢ Mining out useful data patterns

Project	**Subsea, GE Oil and Gas**
Customer	GE Oil and Gas
Period	February 2016 – March 2016
Location	Houston, Texas
Description	GE Subsea group uses an excel based tool for project effort estimation. We supplied a Risk Assessment Tool by modelling the risk. Oracle Crystal Ball was replaced by our Excel VBA based tool.
Role	Data Scientist
Responsibilities	➢ Model Building ➢ Data Analysis ➢ Client Presentation

Project	**Johnson & Johnson**
Customer	J&J
Period	February 2015 – January 2015
Location	Morris Town, New Jersey / Houston, Texas
Description	J&J needed a Data Scientist in their IT team to analyse their data. Work has been started with J&J internal teams in the areas like Multivariate Outlier Detection and Fuzzy Mapping using R, Alteryx and Splunk.
Role	Data Scientist
Responsibilities	➢ Model Building ➢ Data Analysis ➢ Client Presentation

Project	**GE Oil and Gas**
Customer	GE Oil and Gas
Period	February 2014 – January 2015
Location	Houston, Texas
Description	GE Oil and Gas has a huge reservoir of data that includes historical as well as online data. We worked on capacity planning for rigs and basins and also working on prediction / forecasting. He is using R as the analytics tool running on GE Data Lake Hadoop Distributed File System (Big Data setup).
Role	Data Scientist
Responsibilities	➢ Model Building ➢ Data Analysis ➢ Client Presentation

Project	**Analytics Competency**
Customer	TechM Internal
Period	December 2012 – January 2014
Location	Kolkata, INDIA
Description	Working on model building and creating proof of concepts for various client presentations in the areas of forecasting, optimal allocation and sentiment analysis. Received four week training on Data Science by renowned Statisticians like Prof. Parag Muhelikar and Prof. R Karandikar.
Role	Statistical Consultant
Responsibilities	➢ Model Building ➢ Creating Proof of concepts ➢ Client Presentation

Project	**MTN BI (SAS)**
Customer	MTN Nigeria
Period	July 2010 – November 2012
Location	Lagos, Nigeria / Kolkata, INDIA
Description	MTN maintains their BI EDW "SAMOA" implemented by TechM. As a next step MTN implements their Telecom Data Mining Solution using SAS 9.2. Following are the data mining modules implemented for MTN: 1. Churn Prediction 2. Product Propensity Calculation 3. Customer Lifetime Value Calculation 4. Customer Segmentation
Role	Statistical Consultant, Offshore Senior Project Manager, Onsite Program Manager
Responsibilities	➢ Requirement Analysis ➢ Solution Designing ➢ Project Management