# Abdul Yunus

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Hyderabad (Telangana).

## Career Objective

To work in a fast paced, result oriented, dynamic organization where my skills and experience will be exploited to the full.

## Career Summary

Data Science and Advanced Analytics professional with **10+ years of experience** delivering **statistical modelling, machine learning, forecasting, and client-facing analytics solutions** across retail, CPG, and supply chain domains. Known for strong **analytical storytelling**, translating complex data into actionable business insights. Experienced in working with **large-scale structured and unstructured data**, leading analytics teams, and partnering closely with global stakeholders.

Currently working at **Blue Yonder (formerly JDA Software)** as a **Lead Software Engineer (Data Science & Analytics)** since July 2019. Previously held senior analytics roles at **EPAM Systems** (Regional Event Forecasting) and **Nielsen India**, where led a team of **7 data science associates** on large-scale market research and advanced analytics initiatives.

## Key Skills

- Machine Learning Algorithms - Multiple Linear Regression, Logistic Regression, Time Series Analysis, Decision Tree, Random Forest, K Nearest Neighbor, Support Vector Machine, K Means Clustering, Naïve Bayes, Ridge and LASSO Regression, Principal Component Analysis.
- **Analytics & Domain Expertise:** Exploratory Data Analysis (EDA), forecasting and estimation, supply chain analytics, retail & CPG analytics, universe estimation, census studies, survey and sample design, data validation and integration.
- **Programming & Tools:** Python, R, Snowflake, MS SQL Server, PySpark, Kafka, Azure Functions, Streamlit, Docker, AEH, MS Excel.
- **Data Science Engineering:** Built end-to-end data science solutions and analytical applications using Python-based microservices architecture.
- **Leadership & Delivery:** Led and mentored a team of 7 analysts and data science professionals, ensuring timely delivery of analytics and ML solutions.
- **Core Strengths:** Statistical modeling, machine learning, data interpretation, large-scale data processing, and production-ready Python development.

## Education

- **Master Of Business Administration (MBA - Marketing)**
  North Maharashtra University, Jalgaon in 2007-2009

- **Master Of Science in Physics (M.Sc. - Material Science)**
  School of Physical Sciences, Swami Ramanand Teerth Marathwada University, Nanded in 2005-2007

- **Bachelor Of Science (B.Sc. - Mathematics)**

Amravati University, Amravati in 2002-2005

## Working Experience

**Lead Software Engineer, Data Science.**
**Blue Yonder Inc (JDA Software Pvt Ltd), Hyderabad.  (8th July 2019 to till date)**
**Responsibility Areas:**

- Delivered and Implemented **Anomaly Detection models** using **clustering (K-Means/DBSCAN), EDA, and RCA**, enabling early detection and explainability of abnormal patterns across large-scale retail and manufacturing datasets; deployed on the **Stratosphere SaaS platform**.

- Designed and implemented Shopper Insights and Dynamic Data Insights applications using microservices architecture. Conducted exploratory data analysis to uncover meaningful patterns and trends in the data. Deployed these applications on the Stratosphere SAAS platform, enabling seamless processing of over 5 million data points in seconds.

- Managed end-to-end data engineering tasks, including creating robust data pipelines, extracting, ingesting, transforming, and publishing data to various endpoints. Implemented data validation processes, ensuring high data quality and accuracy for analysis.

- Automated functional test cases using Python and implemented unit testing for services, ensuring the reliability and integrity of the developed solutions.

- Collaborated cross-functionally with multiple teams to ensure smooth data flow and integration from diverse customer sources (e.g., Luminate Demand Edge, Luminate Control Tower, TMS, WMS) to BY applications.

- Provided expertise in resolving complex issues related to Data Management Services (DMS) Python build app. Conducted thorough testing and debugging before deployment in customer environments.

- Trained and mentored new team members on data science techniques, tools, and applications. Conducted customer demos to showcase the capabilities of data-driven solutions, including Data Doctor and Data Insights UI.

- Documented and managed user manuals, design changes, and test cases. Also, managed source code repositories, updated artifact repositories, and released Data Doctor packages for customer use.


**Project Work:**

- Development of Shopper Insights, Exploratory Data Analysis and Anomaly detection on python used micro service architecture and deployed on the platform.
- Contributed to the design and implementation of **customer and supplier scoring models**, applying analytical and statistical techniques to support data-driven evaluation and prioritization.
- Designed and developed a **Python-based Alerts and Narratives system** for Blue Yonder's industry solutions, supporting 5 **BY applications** and monitoring **50+ KPIs** to deliver proactive insights.
- Designed and Development of Customer scoring algorithm in python as a part of POC for Tech Mahindra. This algorithm uses, Clustering, Principal component Analysis and XG Boost, Random Forest ML Algorithms.
- Contributed to the **development, testing, and real-time implementation** of **Data Doctor**, Blue Yonder's data validation and monitoring tool used across JDA applications to ensure data quality and reliability.

- Developed **Data Doctor data quality summary reports** supporting both **real-time and batch processing modes**, providing visibility into data health across Blue Yonder applications.
- Developed Outlier computation module, metadata computation module which use basic descriptive stats.
- Delivered a **Python-based Order Lead Time Profiling solution** for a Tech Mahindra POC, applying **statistical analysis and time-series forecasting** to improve lead time estimation.
- Developed Demand confidence band algorithm in Python. This algorithm uses basic statistics to compute the demand confidence band.

**Senior Data Analyst**
**EPAM System India Pvt Ltd, Hyderabad.  (9th Oct 2017 to 5th July 2019)**
**Responsibility Areas:**

- Demand Forecasting for a promotional event of food product, a customized regional event for one of the biggest food chain in North America, using historical *Time series* data.
- Review historical sales trends, research demand drivers, prepare forecast data, develop statistical forecast models, and evaluate forecast results.
- Limited Time offer (LTO) forecast generation using the time series data.
- Conducted trend, seasonality, and EDA analysis using Python/R visualization libraries to improve forecast accuracy.
- Worked cross-functionally to refine forecasts and managed forecasting tools and parameters.
- Manage the forecasting tool and monitor system-created statistical forecast and maintains forecast parameters, consumption history, product groups, identify trends and seasonality, etc.

**Senior Executive, Data Science**
**Nielsen India, Vadodara.**
 **(1st June, 2015 to 4th Oct 2017)**
**Responsibility Areas:**

- Led custom analytics and research projects with regional teams in Sharjah, ensuring on-time, high-quality delivery.
-  Partnered with stakeholders to design questionnaires, research frameworks, and market study blueprints.
- Conducted retail universe estimation (numeric and volumetric) and validated results through trend analysis.
- Built predictive and forecasting models for category sales, including non-cooperating modern trade stores.
- Designed sampling frameworks using stratified random sampling, optimal allocation, and clustering (K-Means).
- Performed data validation and quality checks, defining and tracking key data quality KPIs.
- Analyzed market and store-level patterns to support data-driven planning and decision-making.
- Translated analytical findings into clear insights and presented recommendations to global client solution teams across MENA.
- Managed deliverables, coordinated cross-functional teams, and trained new hires on processes and tools.

**Senior Business Analyst**
**Tata Consultancy Services, Bangalore.   (27th June, 2012 to 30th May 2015)**
**Responsibility Areas:**

- Communicating with clients to understand business requirements and document the business objectives.
- Formulating analysis plans, blueprints of projects and project tracker.
- Data Collection monitoring, Data cleaning, Data Validations and Data Sign off on reviews.
- Conducting in-depth data analyses and bringing that data to life and finding the unique story that connects to the business problem using data visualization.
- Conducted market segmentation and stratification using demographic and store data.
- Retail stores numeric universe estimation and predicting market sales (Volumetric universe estimation).
- Designed statistically representative samples for large-scale market studies.
- Communicated insights through data visualization and stakeholder presentations.

**Assistant Professor**
**ASM's  Institute Of professional Studies, Pune , (29th June 2010 to 16th June 2012).**
**Responsibility Areas:**

- Teaching statistical and Quantitative Methods to M.B.A students, to make them aware about the use of statistical tools for business research purpose in an exciting and loving environment.
- Imparted practical orientation on MS-Excel and R programming to MBA students for data analysis
- Teaching Market Research, Basics of Marketing, Manufacturing and Operation Management, Marketing Management to students.
- Works as a mentor and successfully guided students of marketing Specialization to prepare their Research Paper reports and Summer Internship Project reports**.**

**Lecturer (Temporary Basis)**
**Audhyogik Shikshan Mandal, Institute of professional Studies, Pune,(2009-2010).**
**Responsibility Areas:**
- Teaching statistical and Quantitative Methods to M.B.A students, to make them aware about the use of statistical tools for business research purpose in an exciting and loving environment.
- Imparted practical orientation on MS-Excel and SPSS to MBA students for data analysis
- Teaching Market Research, Basics of Marketing, Manufacturing and Operation Management, Marketing Management to students.

The above information provided is to the best of my knowledge is true and correct.


Place:                                                                                                                   Regards

Date:                                                                                                      Yunus Abdul Ghaffar