**Data Driven Entrepreneurship – A Strategic Tool for Business Decision**

Ekta Singha Roy1

Research Scholar – MAKAUT

Assistant Professor – Department of Business Administration

Global College of Science & Technology

Krishnanagar, Nadia, West Bengal

Dr. Sriparna Guha 2

Department of Business Administration

Narula Institute of Technology

Kolkata, West Bengal

Email id: sriparna110@rediffmail.com

Email id: ektasingharoy90@gmail.com

ABSTRACT

The entrepreneurship is the process of starting and running a business with an aim to grow and develop the economy. Innovation is a contribution by entrepreneur. Data Driven means an organization that is data centric. Data Driven Business Models are more complicated for established business rather than start up business. Data Driven Entrepreneurship are those ventures which collect data and analysis the methods and technologies so that it can build new ventures. It is model which is based on facts, figures and data so that it can guide strategic decision of the business to achieve its goals, objectives and initiatives. It helps the entrepreneur to make better decision. This paper will decision on the principles of data analytics in the start-up stage of the business.

Keywords— Entrepreneur; Entrepreneurship; Data Driven; Startup Analytics; Data Generation; Data Acquisition

# INTRODUCTION

Data has to be one of the competitive advantages in business decision making. To understand the scope and nature of uncertainty that helps in entrepreneurial decisions is a primary focus of entrepreneurship, Knight (1921); McKelvie et.al. (2011). A data driven technique and technologies has not only transform the uncertainty but it shows the ways of dealing with such uncertainty suggested by Dean et al. (2007); Yoo et al. (2010). The collection and analysis of data to evaluate a business opportunities are not only an easy process. The reasons are as follows: -

1. Due to the shortage of 4Rs in the entrepreneurial operations. The 4Rs are Resources, Routine, Reputation and Regulations. These are the internal constraints which influence the entrepreneurial outcome and its process. (Joglekar and Levesque (2013); Jogleskar et al. (2017)).

Secondly An Entrepreneur’s opportunity is based on individual risk preference (Mc Kelvie et al. (2011); Mullins and Forlani (2005)).

Thirdly The Entrepreneurial process outcome is based on external factors which also include economic conditions of entrepreneur (Shephard et al. (2015)).

Lastly On specific external market factors like financial market, regulatory bodies have limited or no control (Fehrenbacher (2016)).

With the help of the big data the entrepreneur gets benefits in decision making and unlocking the business potentials. The open data initiatives companies like Microsoft which help the business with their empire of data.

In decision making if we use data it helps in cost reduction in relation to operational efficiency. In today’s dynamic business environment, the startup of any business faces a multiple problem. Some of the factors which become a barrier in the startup while using data analytics are less focus on product development, experts in data analytics, amount of data, less focus on market penetration, less focus on product delivery, and in short-run the customer validation.

# DATA IN ENTREPREURIAL DECISION

Data Analytics play a crucial role from inception stage of product life cycle. When a new business or a new product are launched, a big data is used for decision. A product testing shows an accurate picture before it gets into the actual product. When a product is tested in a small circle it helps a product to test and then it brings to the general users. As the digital economy has the brought the world in a virtual planet which helps any product to test from a large crowd of consumers. The market analysis and identification of non-economic and economic signals are enabled through a stock of data.

The two clients of Mixpanel are taken for identifying the use of data driven. Mixpanel is a company which tracks mobile usage and web to target product development. One of the clients of Mixpanel, the company name Docusign, uses data analytics tools so that it can boost and globally reach. Another company name Kast from Mixpanel for service provision.

# APPLICATION OF DATA THROUGH ANALYTICAL CONCEPT

The following are the areas where Data Analytics are applied:

## **Product Design**

With the help of data analytics, the entrepreneur can design the product as per the requirements of the user. The consumer data are collected from the social media, emails, etc.

## **Management Reputation**

The rating of the company is being collected in the big data. This helps any company to build or to improve any management reputation.

## **Chatbots**

A Chatbot is a conventional software agent used to communicate with human users through a natural language based on ANN. The advantage of being self-service, including 24x7 full online care, global languages, cost-saving for call centers, as well as interactive and intelligent user experiences.

## **Prevention of Fraud**

Data analytics helps for prevention of fraud. Fraud detection tools like regression, decision making tree, deep learning, etc.

# STRATEGICAL FRAMEWORK OF DATA ANALYTICS

The strategical framework for data analytics is as follows:

1. Understanding the business
2. Collection of Data
3. Understanding the Data
4. Organization of Data
5. Model Preparation
6. Evaluation
7. Deployment

##### REFERENCES

1. Behl, A., Dutta, P., Lessmann, S., Dwivedi, Y. K., & Kar, S. (2019). A conceptual framework for the adoption of big data analytics by ecommerce startups: a case-based approach. Information Systems and eBusiness Management, 17(2), 285-318.
2. Kandel, S., Paepcke, A., Hellerstein, J. M., & Heer, J. (2012). Enterprise data analysis and visualization: An interview study. IEEE Transactions on Visualization and Computer Graphics, 18(12), 2917-2926.
3. Dean, M. A., Shook, C. L., and Payne, G. T. 2007. The past, present and future of entrepreneurship research: Data analytic trends and training. Entrepreneurship Theory and Practice, 31(4): 601–618.
4. Fehrenbacher, K. 2016. Solazyme ditches biofuels (& name) in a world of cheap oil. Fortune.
5. Joglekar, N. and Levesque, M. 2013. The role of operations management across the entrepreneurial value chain. Production and Operations Management, 22(6): 1321–1335.
6. Joglekar, N., Levesque, M., and Erzurumlu, S. S. 2017. Business Startup Operations, chapter Business startup operations, 255–275. Routledge.
7. Knight, F. H. 1921. Risk, Uncertainty and Profit. Houghton Mifflin, New York.
8. McKelvie, A., Haynie, J. M., and Gustavsson, V. 2011. Unpacking the uncertainty construct: Implications for entrepreneurial action. Journal of Business Venturing, 26: 273–292.
9. Mullins, J. and Forlani, D. 2005. Missing the boat or sinking the boat: A study of new venture decision making. Journal of Business Venturing, 20: 47–69.
10. Yoo, Y., Henfridsson, O., and Lyytinen, K. 2010. The new organizing logic of digital innovation: An agenda for information systems research. Information Systems Research, 21(4): 724–735m