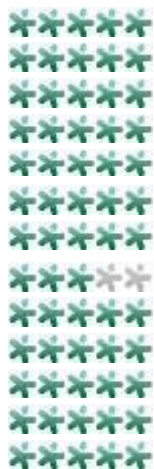


Name [Rucha Deshpande](#)
Degree M.Tech. (Pharmaceutical Sciences and Technology)
Date of Birth 31st August 1988
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Professional Summary

- A Chemical Technologist specialized in Pharmaceutical Sciences.
- Experienced in pharmaceutical product development in accordance with Quality by Design principles.
- A science writer.
- An independent trainer and consultant for Six Sigma, Lean, Statistics, Machine Learning, Process Analytical Technology, or Chemometrics.
- An R programmer and data analytics products developer.
- Founded [Let's Excel Analytics Solutions](#) for promoting data science in research. The start-up offers Software as a Service Platform for data analytics, Knowledge Process Outsourcing Services, and services for implementation, consulting, training, and customization of other Software as a Service Platforms such as ERP and CRM.

My Skills Summary



Design of Experiments
 Process Optimization
 PAT & Chemometrics
 Continuous Improvement
 Machine learning
 Process Engineering
 Six Sigma
 Lean
 Enterprise Resource Planning
 Customer Relationship Management
 Business Development
 Digital Marketing
 Science Writing

Work Experience

Founder & Partner- [Let's Excel Analytics Solutions LLP \(September 2020-Till Date\)](#) [Let's Excel](#)

- Founded Let's Excel Analytics Solutions for promoting data science in research.
- Started as a solopreneur and now evolved to a small business with a dynamic team of 4 members.
- It is a bootstrapped start-up with my Partnership contribution of 90% and Profit share of 80%.
- I am leading end-to-end operations for Human Resource Management, Business Development, Customer Support, Software Services and Subject Matter Expertise Services for Knowledge Process Outsourcing.

Independent Freelance Assignments (September 2019 – Till Date)

Self-employed

- Working as an independent Consultant for NIPER Ahmedabad since August 2021.
- Independent training & consulting on Six Sigma, Lean, Statistics, Machine Learning, Process Analytical Technology, or Chemometrics.
- Content Writing for Scilife (erstwhile QualityKick)
- Successfully completed QA & CSV assignments with QbD Software to get ISO 9001:2015 certified.

Scientist – QbD (March 2017 – September 2019)

Dr. Reddy's Laboratories Ltd.

Strategic implementation of Quality by Design practices using risk based approach. Extensive use of data science in the form of Design of Experiments, Multivariate Data Analysis Techniques to explore scientific relationships.

Senior Research Associate (March 2015-March 2017)

Wockhardt Research Centre.

Institutionalized best of the best practices for using Process Engineering and Process Analytical Technology tools to manage the life-cycle of high value products.

Process Technologist (November 2014 – March 2015)

Glatt Systems Pvt. Ltd.

Lead the promotional activities for introducing new line of equipment on technical front.

Scientist – Process Optimization

Process Engineering – Formulations (July 2012 – November 2014)

Dr. Reddy's Laboratories Ltd.

Scale up and continuous improvement of drug products using Process Analytical Technology Tools.

Education

Post-Graduation

Institute of Chemical Technology, Mumbai

M.Tech. in Pharmaceutical Sciences and Technology

- **Project Work**

Development and Evaluation of Osmotic Drug Delivery System

Guide: Prof. P. R. Vavia

Graduation

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

B.Tech. Chemical with specialization in Pharmaceuticals and Fine Chemicals

- **Project Work**

QSAR Studies of Benzoyl Urea Derivatives as Anti-mitotic Agents

Guide: Prof. D. B. Shinde

- **Summer Training**

Studies in Cyclic Voltammetry

UGC CAS Networking Program at Institute of Chemical Technology, Mumbai

Supervisor: Prof. K. V. Marathe

- **In-Plant Training**

Completed four weeks of in-plant training at API manufacturing unit of Harman Finochem Ltd. located at Shendra, Aurangabad.

Certification

ASQ Certified Six Sigma Black Belt

[Certification link](#)

Publications

Poster Published 2014 AAPS Annual Meeting and Exposition

- Optimizing Coating Processes for Drug Layering of Tablets Using Dispersions with a High Sedimentation Rate
- NIR Technology for Monitoring a Granulation Process by Twin Screw Extrusion

Poster published in 63rd IPC 16th to 18th December, 2011

- Development and Evaluation of Swellable Core Osmotic Tablets of Paliperidone

Research articles

- [PAT-Based Control of Fluid Bed Coating Process Using NIR Spectroscopy to Monitor the Cellulose Coating on Pharmaceutical Pellets, Nov 20, 2016 in AAPS PharmSciTech](#)
- [Real Time Imaging as an Emerging Process Analytical Technology Tool for Monitoring of Fluid Bed Coating Process in Pharmaceutical Development and Technology, Taylor & Francis Online](#)

Guest Lectures

CSIR SRTP 2020

- Machine Learning Applications using DataPandit.in Apps

One week e-fdp on 'Advances in Pharmaceutical Education' Based on PCI Syllabus for UG and PG Courses, organized by Oriental Education Society's Oriental College of Pharmacy, From 6th to 11th July, 2020

- Introduction to Six Sigma

Workshop on Analytical Data Decoding with Chemometrics at Venture Center 27 July 2022

- Applications of Chemometrics for Quality by Design in Pharmaceutical Industry

Languages

Language	Proficiency Level
English	Conversational
Hindi	Conversational
Marathi	Fluent
German	Basic