

## Contact

[www.linkedin.com/in/ashishpatel2604](https://www.linkedin.com/in/ashishpatel2604) (LinkedIn)  
[medium.com/ml-research-lab](https://medium.com/ml-research-lab)  
(Personal)

## Top Skills

Machine Learning  
Deep Learning  
Mathematical Statistics

## Languages

Hindi  
Gujarati  
English

## Certifications

Natural Language Processing in TensorFlow  
IBM Quantum Summer Spring Challenge 2022  
Advanced Data Science Specialization  
IBM Quantum Challenge - Fall 2021 - Advanced  
Sequences, Time Series and Prediction

## Honors-Awards

Kaggle Master World Rank 3

## Publications

A SURVEY ON DEEP LEARNING METHOD USED FOR CHARACTER RECOGNITION  
TAG BASED IMAGE RETRIEVAL USING NATURAL LANGUAGE PROCESSING(NLP)  
ENERGY EFFICIENT DSR TO IMPROVE THE ROUTING IN MANET  
EFFECTIVE CREDIT DEFAULT SCORING USING ANOMALY DETECTION

# Ashish Patel

AI Researcher Scientist & Chief Data Scientist at IBM | 56k+ Followers | Author of Hands-on Time Series Analytics with Python | Keras Contributor | IBM Quantum Machine learning Certified | 10 Years of Journey in AI |  
Ahmedabad, Gujarat, India

## Summary

I have over 8.5+ years, Author, Data Scientist and Researcher with 5+ Years of Experience of Data Science technology and Research experience in wide functions including predictive modelling, data preprocessing, feature engineering, machine learning and deep learning. Currently, I work as Data Scientist at Cygnet Infotech Pvt Ltd. Improving products and services for our customers by using advanced analytics, standing up big-data analytical tools, creating and maintaining models, and onboarding compelling new data sets.

Previously, I worked at Softweb Solutions Pvt Ltd as a Data Scientist, improving products and services for our customers by using advanced analytics, framing the data science problem from client requirement, creating and maintaining models, and onboarding new data sets.

If you catch me outside of work, I'm an adventurous traveler and an avid lover of cricket!

: Data science, Machine learning, Deep learning, Audio Processing, Python, Computer Vision, SQL, Keras, TensorFlow, Librosa, Pyaudio

I also like meeting new people over a cup of coffee. Feel free to reach out at [ashishpatel.ce.2011@gmail.com](mailto:ashishpatel.ce.2011@gmail.com)

I am a passionate blogger, Researcher like to write about Machine learning and deep learning related Articles. you can visit my blog

: <https://medium.com/ml-research-lab>.

book: <https://www.amazon.in/B-V-Vishwas-ebook/dp/B08GLG46PQ/>

Orcid Profile: <https://orcid.org/0000-0002-5385-3897>

P.S. If you're passionate about creating tech-focused products to help people reach their potential, I am happy to connect at <https://www.linkedin.com/in/ashishpatel2604>

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## Experience

### IBM

Sr. AWS AI/ML Solution Architect(Chief Data Scientist)

May 2022 - Present (4 months)

Ahmedabad, Gujarat, India

- #Design and/or delivery of solutions, assets, and content.
- #Apply methodology and governance around project development.
- #Document and articulate clear understanding of customer/partner success criteria.
- #Apply critical thinking, technical knowledge, customer/partner insights to solve problems with industry methodologies, and frameworks.
- #Collaborate with IBM and AWS specialists to design and build complex enterprise solutions with foundation of Red Hat Open Shift, AWS Infrastructure, and IBM Software technology.
- #Standardize solutions in accordance with the AWS Well-Architected Framework across all pillars, including operational excellence, security, performance efficiency, cost optimization, and reliability.
- #Define, lead, and execute architecture design workshops and whiteboarding sessions to build implementation plans.
- #Develop deep relationships with key customers through solution integration to drive long-term IBM and AWS adoption.
- #Team well with our key IBM & Red Hat business units, and strategic partners to support our partnership.
- #Consult as a subject matter expert on our IBM/AWS technology and services portfolio.
- #Author use cases, reference architectures, blog posts, and other field and external content.
- #Work in sandbox environments to demonstrate IBM Hybrid Cloud Capabilities with AWS.

### Cygnnet Infotech

Principal Data Scientist & Data Science Manager

April 2020 - May 2022 (2 years 2 months)

Ahmedabad, Gujarat, India

- Interact with customer and come up with use-case's on ML/AI and use the same in solution integration on existing business.
- Selecting features, building, and optimizing classifiers using machine learning techniques.
- Develop and test Computer vision algorithms to edge devices and advanced hardware systems created.
- Develop and evaluate state-of-the-art computer vision algorithms for real-time edge devices and other hardware devices.
- Perform technical performance benchmarking and analyses to support engineering decisions
- Data mining using state-of-the-art methods
- Extending company's data with third party sources of information when needed
- Enhancing data collection procedures to include information that is relevant for building analytic systems
- Processing, cleansing, and verifying the integrity of data used for analysis.
- Participate in design reviews.
- Doing ad-hoc analysis and presenting results in a clear manner
- Creating automated anomaly detection systems and constant tracking of its performance
- Research and devise innovative statistical models for data analysis
- Work as the lead data strategist, identifying and integrating new datasets that can be leveraged through our product capabilities and work closely with the engineering team to strategize and execute the development of data products.
- Collaborate with product design and engineering to develop an understanding of needs and Quality.
- Analyse data for trends and patterns and Interpret data with a clear objective in mind.
- Provide deep learning and machine learning base solutions to Solve varies Real world problem.

Projects : Semantic Segmentation, Image classification, 3d Sementic Segmentation, Few-shot Image Classification, Object detection, Image Quality

Assessment, Pose Estimation, Key-point Detection, Image Augmentation, Super Resolution

## SYMBIOSIS INTERNATIONAL UNIVERSITY

Industry Associate Professor

February 2022 - March 2022 (2 months)

Pune, Maharashtra, India

- Teaching Computer vision to M.tech Students.

Topics I teach:

- Image Acquisition, Sampling, Quantization, Difference in Monochrome and Multichrome imaging, the concept of color spaces, point processing techniques, mask processing methods, image filtering, shape in images, edge detection, gradient operators- Roberts, Sobel, Prewitt, Canny, Slope magnitude method, morphological image processing, erosion, dilation, opening, closing, hit-n-miss transform, thinning, Top Hat transformation, Bottom hat transformation

- Shape Descriptors-contour based, region-based, Boundary based; Thresholding based segmentation, Watershed based Segmentation, Gray level Co-occurrence Matrix-energy, entropy, maximum probability, contrast, correlation; wavelets, wavelet Pyramids, Image matching,

- Hough Transform, RANSAC, Large-scale retrieval: Spatial Verification, TF-IDF, Query Expansion, feature encoding, Crowdsourcing, and Human Computation, Corners - Harris and Hessian Affine, Orientation Histogram, SIFT, SURF, HOG, GLOH, Scale-Space Analysis- Image Pyramids and Gaussian derivative filters, Gabor Filters and DWT.

## Packt

Technical Book Reviewer

June 2020 - September 2021 (1 year 4 months)

Ahmedabad, Gujarat, India

Technical Book Reviewer

## Apress

Book Author

November 2019 - August 2020 (10 months)

New York, United States

Manning Publications Co.  
Technical Book Reviewer  
January 2020 - May 2020 (5 months)  
Ahmedabad, Gujarat, India

Prompt Softech  
Sr.Data Scientist & AI Consultant  
September 2019 - February 2020 (6 months)  
Ahmedabad, Gujarat

- Research and devise innovative statistical models for data analysis
- Work as the lead data strategist, identifying and integrating new datasets that can be leveraged through our product capabilities and work closely with the engineering team to strategize and execute the development of data products.
- Collaborate with product design and engineering to develop an understanding of needs and Quality.
- Analyze data for trends and patterns, and Interpret data with a clear objective in mind
- Keep current with technical and industry developments in dairy sector.
- Execute analytical experiments methodically to help solve various problems and make a true impact across dairy domains industries.
- Provide deep learning and machine learning base solutions to Solve varies Real world problem.

Softweb Solutions Inc.  
Senior Data Scientist  
January 2018 - September 2019 (1 year 9 months)  
Ahmedabad Area, India

- Data mining using state-of-the-art methods.
- Hands-on experience in selecting features, building, and optimizing classifiers using machine-learning techniques.
- Enhancing data collection procedures to include information that is relevant for building analytic systems
- Processing, cleansing, and verifying the integrity of data used for analysis.
- Doing ad-hoc analysis and clearly presenting results.
- Creating anomaly detection systems and constant tracking of its performance.
- Having strong knowledge in Statistics, Feature Engineering, Model Selection, Model Evaluation, and Feature Scaling to build accurate machine learning.

- Experience in tuning and optimize ML/DL model for performance improvement.
- Hands-on experience working with live projects on different machine learning techniques.
- Having strong problem-solving capabilities.
- Working with most demand industrial technology Framework like pandas, numpy, matplotlib, nltk(NLP), Keras(Deep Learning, tensor flow scikit learn(Machine learning), open cv

Projects: Image Classifications, Facial Expression Recognition, Recommendation system, Predictive Modeling, Regression Analysis

### Solaris Publication

Jr. Data Scientist

December 2016 - December 2017 (1 year 1 month)

Ahmedabad Area, India

- Research raw data and disseminate easily understood insights to provide organizational direction.
- Produced a company guidelines and best practices document based on consumer insight analysis.
- Performed regular web scraping to synthesize data.

Project: Image Classification, Seasonality Trends Analysis, Recommendation System

### SILVER OAK COLLEGE OF ENGG., & TECH., AHMEDABAD 077

AI Researcher and Assistant Professor

December 2015 - December 2016 (1 year 1 month)

Ahmedabad Area, India

- Teaching a student Academic Syllabus with practical labs.
- Guide a Students on their master thesis on Data Mining and Deep learning.
- Initiated to work with Student on the new research project with new technology.
- Guide a student to their Academic project.

### L.D College of Engineering,Ahmedabad

Lecturer

May 2015 - December 2015 (8 months)

I teach their B.E and M.E student in Information Technology Department

Mantrasoft India

Software Developer

July 2011 - August 2013 (2 years 2 months)

Ahmedabad

PHP Developer, Wordpress, Joomla

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## Education

2021 Qiskit Global Summer School on Quantum Machine Learning  
Certificate of Quantum Excellence, Quantum Computing, Quantum Machine Learning · (July 2021 - August 2021)

The Coding School

Quantum Computing Student, Quantum Computer · (2020 - 2021)

Silver Oak College of Engineering and Technology

Master of Engineering (M.Eng.), Computer Engineering · (2013 - 2015)

Hemchandracharya North Gujarat University

Bachelor's degree, Information Technology · (2007 - 2011)