

# Ashish Patel

Sr. Data Scientist & Author

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ML Research Lab (Medium Blog)

**IBM Certified Quantum ML Engineer**

**Rank#3** Kaggle Kernel Master

**Book:** Hands-on Time Series Analytics with Python



## SUMMARY

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Data scientist and researcher with 7 + years of experience and Total 10+ years of experience in wide functions including Predictive modelling, Data Pre-processing, Feature engineering, Machine learning and Deep learning, Computer Vision, Natural Language Processing, Audio Processing, Satellite image Processing, Quantum Computing, Quantum Machine learning, MLops.

## EDUCATION

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**Gujarat Technological University**

**Ahmedabad, Gujarat**

*M.E (Computer Engineering)*

*2013-2015*

**Hemchandracharya University**

**Mehsana, Gujarat**

*B.E (Information Technology)*

*2007-2011*

## EXPERIENCE

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**Cygnnet Infotech Pvt. Ltd**

**Ahmedabad, Gujarat**

*Sr. Data Scientist & AI Consultant*

*2020(Apr)-Current*

- Interact with customers, develop use-cases on ML/AI, and use the same in solution integration on existing business.
- Selecting features, building, and optimizing classifiers using machine learning and Deep learning techniques.
- Data mining using state-of-the-art methods and handling large-scale data using ETL: processing tools such as Pyspark and Data Bricks.
- 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
- Doing ad-hoc analysis and presenting results in a transparent 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.
- Analyze data for trends and patterns and Interpret data with a clear objective in mind.
- Provide deep learning and machine learning-based solutions to Solve various Real-world problems.

*Projects: Recommendation System, Chatbot Architecture Designing, Image Classification based project, Computer Vision based Projects, Audio Deep learning based projects etc.*

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**Prompt Softech Pvt Ltd (Amul Affiliated Company)**

**Ahmedabad, Gujarat**

*Sr. Data Scientist*

*2019(Sep)-2020(Feb)*

- 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.
- Formulating, suggesting, and managing data-driven projects which are geared at furthering the business's interests.
- Analyse data for trends and patterns and Interpret data with a clear objective in mind.
- Cross-validating models to ensure their generalizability.
- 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.
- Monitoring the performance of Junior Data Scientists and providing them with practical guidance, as needed.
- Selecting and Employing advance deep learning and machine-learning based solutions to Solve varies Real world problem.

*Projects: Milk Adulteration, Calf Behaviour Analysis, Calf health prediction, Animal Lameness detection etc.*

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**Softweb Solutions (Avnet Company Fortune 500)**

**Ahmedabad, Gujarat**

*Data Scientist*

*2018(Jan)-2019(Sep)*

- 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 presenting results in a clear manner.
- 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), opencv etc.

*Projects: Image Classifications, Facial Expression Recognitions, Recommendation system, Predictive Modelling, Regression Analysis*

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**Solaris Publication**

**Ahmedabad, Gujarat**

*Jr. Data Scientist*

*2017(Jan)-2018(Jan)*

- Requirement gathering from the Business Team.
- Increased training data using the Image augmentation technique.
- Used Transfer learning concept to achieve reasonable accuracy.
- Implemented Deep learning image classification model.
- Validated Model on thousands of images.

*Projects: Image Classification, Seasonality Trends Analysis, Recommendation System*

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**Silver oak College of Engineering and Technology**

**Ahmedabad, Gujarat**

*Researcher and Assistant Professor*

*2015(Dec)-2016(Dec)*

- Teaching a student Academic Syllabus with practical labs.
- Guide 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, Gujarat**

*Lecturer*

*2015(May)- 2015(Dec)*

**Mantrasoft India**

**Ahmedabad, Gujarat**

*PHP developer*

*2011(Aug)- 2013(Aug)*

**TECHNICAL SKILLS**

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- ✓ **Programming Languages:** Python, R
- ✓ **Databases:** PostgreSQL, Redshift, MongoDB
- ✓ **Big Data Frameworks:** Hadoop streaming, DataBricks, Kafka
- ✓ **Libraries:** pandas, NumPy, sklearn, scipy, keras, nltk, spacy, matplotlib, pyserial, tensorflow, pytorch, pyspark
- ✓ **Machine Learning:** Regression, Random forest, boosted decision trees, naive Bayes, SVM, k- means clustering, SVD/PCA, Anomaly Detection, Deep Learning algorithms, Time Series Analysis, Sequence to Sequence learning, Meta learning
- ✓ **Deep learning:** NN, RNN, LSTM, GRU, CNN, Transfer Learning, Optimization of Algorithm, Regularization, Hyperparameter Tuning, Batch Normalization
  - Object Detection Algorithm : YOLOv5, SSD, RetinaNet, R-CNN, Faster R-CNN, Efficient Det
  - Semantic Segmentation Algorithms : Unet, FCN, SegNet, DeepLab, DeepLabv3 Unet++
  - Generative Adversial Networks : GAN, Style GAN, DC GAN, SRGAN, ESRGAN
  - Instance Segmentation : Mask R-CNN, CenterMask

- Vision Transformer, Autoencoder, Capsule Net, RBF, Deep Belief Network, Variance Auto Encoder, Wavelet CNN etc.
- ✓ **Natural Language Processing:** Encoder Decoder Model (BERT, ALBERT etc.), NER, Language Modelling etc.
  - Frameworks: NLTK, Spacy, Gensim, Transformers, torchtext etc.
- ✓ **Statistics:** Descriptive Statistics, Inference Statistics, Bayesian Inference
- ✓ **Deployment Tools:** Docker, Kubeflow, MLops, MLflow, Tensorflow-Serving, ZenML, Kedro
- ✓ **Cloud Knowledge :** Azure Machine learning Services, Aws Cloud Sage Maker Services.

## ACHIEVEMENT

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- Technical Book Reviewer with Manning Publication, Packt Publication, Apress Publications.
- Achieved Star Club Member of Github contains more than 7k [star](#).
- Certified Quantum Computing Practitioner from Qubit by Qubit(Thecodeschool) MIT and Oxford University join Program.
- IBM Certified Quantum Computing and Quantum Machine learning Practitioner.
- Published more than 20+ Research papers with Publications such as IEEE, Springer etc.
- Book Author of Hands-on Time Series Analytics with Python - [Book](#)
- Coursera Certified Specialization in TensorFlow in Practice, Deep learning AI, Advance Data Science with IBM

Link: <https://www.linkedin.com/in/ashishpatel2604/>

- Three-time potential Kernel Winner on World best data science platform Kaggle(Google Data Science Platform)

## PERSONAL

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**Citizenship:** Indian

**Natural Languages:** English, Hindi, Gujarati

**Interests:** traveling, photography, distance running, choir, fantasy baseball

**ASHISH PATEL**  
**SR. DATA SCIENTIST**