

# Ashish Salunkhe

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## EDUCATION

### Savitribai Phule Pune University

Bachelor of Engineering in Computer Engineering: CGPA: 7.43/10.0

Pune, India

Aug 2016 - May 2020

## SKILLS

- **Languages:** Python, C++, Java
- **Machine Learning:** TensorFlow, Keras, Scikit-Learn, OpenCV
- **Web Technologies:** HTML, CSS
- **Database Technologies:** Oracle11g, SQL
- **Other:** Photoshop, LaTeX, Tableau, WordPress

## EXPERIENCE

### Crysagi Systems

Pune, India

Project Intern (Machine Learning)

September 2019 - October 2019

- **Opinion-based QA over Financial Data:** (Ongoing)

Question Answering system that answers natural language questions based on corpus of structured and unstructured text documents from different financial data sources.

**Technology Stack:** Language - Python, Packages - keras, pandas, matplotlib, nltk.

### CoreView Systems

Pune, India

Project Intern (Machine Learning)

June 2019 - September 2019

- **DeepSpamReview:**

Detection of Fake Reviews on Online Review Platforms using Deep Learning Architectures  
Used Attention-based LSTM for Deceptive Opinion Spam Classification.

Achieved an accuracy of 90.25% on Deceptive Opinion Spam Corpus.

**Technology Stack:** Language - Python, Packages - keras, pandas, matplotlib, nltk.

### MITU Skillologies

Pune, India

Project Intern (Machine Learning)

June 2018 - Feb 2019

- **News Dataset Topic Modeling:**

Used K-means Clustering, Random Forest Classifier and Latent Dirichlet Allocation.

Achieved an accuracy of 95.33% on UCI News Aggregator Dataset.

**Technology Stack:** Language - Python, Packages- numpy, nltk, pandas, matplotlib, gensim, sklearn.

### Robocon PCCOER

Pune, India

Programmer

August 2017 - March 2018

- **Autonomous and Manual Robots:**

Team Size - 30. (6 Programmers) Built 2 robots - autonomous and manual.

Worked on programming sensors, real-time object detection.

**Technology Stack:** Language - C , Python, Hardware devices: Arduino, Sensors, Actuators and Rasberry Pi. Used OpenCV.

## PROJECTS

- **DeepSpamReview:** Detection of Fake Reviews on Online Review Platforms using Deep Learning Architectures
  - Models: LSTM, CNN, LSTM-CNN, Attention
  - Embeddings: GloVe, fastText, word2vec
  - **Technology Stack:** Language - Python, Packages- keras, tensorflow, theano, numpy, nltk, pandas, matplotlib, sklearn.
- **News Articles Topic Modeling using LDA:** Implemented generative probabilistic model for collections of discrete data: text corpora and automatically labeling the textual data.
  - Used K-means Clustering, Random Forest Classifier and Latent Dirichlet Allocation.
  - Used numpy, nltk, pandas, matplotlib, gensim, sklearn
  - Achieved an accuracy of 95.33% on UCI News Aggregator Dataset.
- **Air Quality Forecasting- Outlier Detection in Multivariate Time Series Data:** Implemented LSTM model for multivariate time series forecasting using the Keras deep learning library.
  - Used Historical Daily Ambient Air Quality Dataset released by Ministry of Environment and Forests Central Pollution Control Board, Open Govt. Data Platform, India.
  - Prepared data and fitted an LSTM for a multivariate time series forecasting.
  - Evaluated the model using Root Mean Squared Error(RMSE).
- **Attendance Monitoring System - AttendeR:**
  - Team Size - 4
  - Developed an Android Application for QR-based attendance and added this functionality to college's elearning website for teachers to use.

## ADDITIONAL EXPERIENCE & ACHIEVEMENTS

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- Review Paper on *Machine Intelligence for Sustainable Agricultural Development*, Ashish Salunkhe, Prof. Mahendra Salunke, Computer Society of India Communications, January Issue [Vol. 41, Issue 10]
- Selected in Eyantra Robotics Competition 2017 (eYRC-17) organized by IIT-Bombay.
- Submitted Paper on *Topic Modeling using LDA by Gensim with MALLET's Implementation* in Scipy Conference 2018 held at IIT Bombay, Powai.
- Paper accepted on *Attention-based Bidirectional LSTM for Deceptive Opinion Spam Classification* in IEEE UPCON Conference 2019 to be held in November 2019 and to be published in IEEE Xplore.
- Participated in ABU Robocon 2018 and won matches at league stage and ranked 51st amongst 200 participating teams.
- Ranked 8th in ACM Pune Coding League 2.0 (2018) organized by PCCOE ACM Student Chapter and ACM Pune Professional Chapter.

## CERTIFICATIONS

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- Core Java by Seed Infotech Pvt. Ltd. earned in October 2018.
- Advanced Java by Seed Infotech Pvt. Ltd. earned in August 2019.
- Machine Learning by Stanford University on Coursera earned in January 2019.
- Neural Networks and Deep Learning by deeplearning.ai on Coursera earned in January 2019.
- Convolutional Neural Networks by deeplearning.ai on Coursera earned in February 2019.
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by deeplearning.ai on Coursera earned in March 2019.
- Structuring Machine Learning Projects by deeplearning.ai on Coursera earned in March 2019.
- Sequence Models by deeplearning.ai on Coursera earned in April 2019.
- Natural Language Processing in TensorFlow by deeplearning.ai on Coursera. earned in July 2019
- Databases and SQL for Data Science by IBM on Coursera earned in August 2019

## VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

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- Founder and Chairperson of PCCOER ACM Student Chapter, an ACM student association with over 200 active chapter members. Responsible for developing and managing chapter programs and fulfilling the chapter's obligations to the Association of Computing Machinery(ACM).
- Founding Member and Programmer of Team Robocon PCCOER. Worked with a team of 40 in building two robots (autonomous and manual), participated and won league stage matches in ABU Robocon 2018 Competition.
- Contributed to Google Crowdsourcing in creating datasets for Image labels, Captions and English-Hindi Translation validation.