



ASEEM PATIL

PROFILE

To learn and grow as a computer science engineer, and contribute to cutting edge research in the fields of Machine Learning, Data Science, and Artificial Intelligence.

CONTACT

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CITIZENSHIP

U.S. Citizen

HOBBIES

Chess
Cricket
Soccer
Sketching and Drawing
Reading
Travelling

EDUCATION

B.E. Electronics Engineering, Vishwakarma Institute of Technology, Pune
CGPA: 8.21/10 (2016 – 2020)

Podar International School [ICSE Board]
GPA Percentage: 80.4% (2007 – 2014)

WORK EXPERIENCE

In2things Automation Pvt. Ltd. (Pune): Data Science Research Scientist
March, 2019 – March, 2020

- Developed machine learning models to detect if manufacturing logos have been printed properly on a rough surface.
- Trained models for character recognition and smart expert systems using deep learning algorithms.
- Conducted trial runs of models to be sure they will produce the desired information and that the information are correct when they are displayed.
- Consulted with IoT based and technical personnel to clarify program intent, identify problems and suggest changes when linking IoT based projects to Machine Learning based projects.
- Used different machine learning algorithms to build image processing models using MATLAB, Keras, Pytorch and OpenCV.

PUBLICATIONS

- Prof. Milind Rane, Aseem Patil and Bhushan Barse. "**Real Object Detection Using Tensorflow**" in *Proceedings of ICCCE 2019*. [Lecture Notes in Electrical Engineering, Springer, Singapore]
- Aseem Patil. "**Real Drowsiness Detection Using Viola Jones Algorithm in Tensorflow**" in *Proceedings of ICMLIP 2019*. [Advances in Intelligent Systems and Computing, Springer, Singapore]

SKILLS

- ✓ CLOUD COMPUTING
- ✓ PYTORCH
- ✓ KERAS
- ✓ C/C++
- ✓ DATA VISUALIZATION
- ✓ COMPUTER VISION
- ✓ MATLAB
- ✓ MYSQL
- ✓ TENSORFLOW
- ✓ PYTHON
- ✓ MACHINE LEARNING

CO-CURRICULAR ACTIVITIES

- **DATA ANALYSIS WITH PYTHON**
IBM Data Science Professional Certificate
Credential ID BMX53RTSGFZ7
- **DATA SCIENCE METHODOLOGY**
IBM Data Science Professional Certificate
Credential ID R6777MLWLUTZ
- **DATA VISUALIZATION WITH PYTHON**
IBM Data Science Professional Certificate
Credential ID MZB87KFKTY72
- **EXPLORATORY DATA ANALYSIS USING R**
Coursera
Credential ID HYXZ64AFBY2V
- **R PROGRAMMING**
Coursera
Credential ID CSJAPP8JPB33
- **REGRESSION MODELS**
Coursera
Credential ID LAE5BLR5PR92
- **REPRODUCIBLE RESEARCH**
Coursera
Credential ID BY2RME3KS8E6
- **WHAT IS DATA SCIENCE?**
IBM Data Science Professional Certificate
Credential ID 86D57BF9L2S5

- Prof. Dnyaneshwar Kanade, Aseem Patil, Venugopal Bang, Maithili Jayale, Darshan Dodal, Rutik Katkamvar, " **Driver Alertness Detection Using OpenCV In Python**" in the International Journal of Engineering Applied Science and Technology"; DOI: 10.33564/IJEAST.2019.v04i06.015
- Prof. Ajay Talele, Aseem Patil, and Bhushan Barse. "**Detection of Real Time Objects Using Tensorflow and OpenCV**", ajct, Apr. 2019.
- Prof. Ajay Talele and Aseem Patil, "**Detecting Characters using OCR and Tesseract in OpenCV by LSTM**", *think-india*, vol. 22, no. 14, pp. 15112-15117, Dec. 2019.
- "**Convolutional Neural Networks: An Overview and its Applications in Pattern Recognition** ", accepted in the conference proceedings (ICTIS-2020) of Springer's book series, "Smart Innovation, Systems and Technologies".
- "**Detection of Alphanumeric Characters by Connectionist Temporal Classification with Vanilla Beam Search Algorithm and NLP Using MATLAB and Keras** ", accepted in the conference proceedings (ICTIS-2020) of Springer's book series, "Smart Innovation, Systems and Technologies".
- "**Car Damage Recognition Using the Expectation Maximization Algorithm and Mask R-CNN** ", accepted in the conference proceedings (ICTIS-2020) of Springer's book series, "Smart Innovation, Systems and Technologies".
- "**A Computational Model Simulation for Self- Driving Cars Using MADRaS Simulator in MATLAB and Tensorflow** ", accepted in the conference proceedings (EWCIS-2020) of Springer's book series, "Lecture Notes in Electrical Engineering, Springer, Singapore".
- "**Routh Hurwitz Criterion for Stability: An Overview and its Implementation on Characteristic Equation Vectors Using MATLAB**", accepted in the conference proceedings (IEMIS-2020) of Springer's book series, "Advances in Intelligent Systems and Computing, Springer, Singapore".

RESEARCH EXPERIENCE/PROJECTS

- Smart Blind Stick for the Disabled (Feb 2017-May 2017)
- Real Drowsiness Detection Using Viola Jones Algorithm in Tensorflow (Feb 2018-May 2018)
- Real Time Object Detection Using Tensorflow (Aug 2018-Dec 2018)
- Detecting Characters Using OCR and Tesseract in OpenCV by LSTM (Aug 2019-Sept 2019)

➤ **IOT TRAINING**

Internshala

Credential ID 34483E2E-8930-33FF-D78C-3A9997BEF5AF

➤ **PYTHON PROGRAMMING TRAINING**

Udemy

Credential ID UC-7ZPIEHOM

➤ **ADVANCED MACHINE LEARNING AND DATA ANALYSIS PROJECTS BOOTCAMP**

Udemy

Credential ID UC-O88XOC53

➤ **FUNDAMENTALS OF IOT DEVELOPMENT WITH THINGWORX**

Udemy Academy

Credential ID UC-KDE2N5ZJ

- Detecting Alphanumeric Characters Using Connectionist Temporal Classification and Natural Language Processing (Sept 2019-Oct 2019)
- Smart Aqua Expert System (Hydroponics using DL)
(Nov 2019-Dec 2019)
- A Computational Model Simulation for Self- Driving Cars Using MADRaS Simulator in MATLAB and Tensorflow (March 2020-April 2020)
- Car Damage Recognition Using the Expectation Maximization Algorithm and Mask R-CNN
(April 2020-May 2020)
- An Accurate, Efficient and Effective Method for Vehicle Spotting and Lane Identification with Distance Estimation Using YOLOv3 and Keras
(April 2020-April 2020)