

Amol Patil Machine Learning engineer with Computer Vision experience. Can write backpropagation. Python programmer. Believes in AI for humanity.

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Education

BE - Information Technology | Pune University, India

May 2018

- Aggregate: **78.44**
- 2018 P P Chhabria Award for **Best Outgoing Student**
- **Mentor** for Python and ML at AvidSangam Community

Experience

Team Lead, Team Innovators06, Smart India Hackathon, Jaipur

Mar 2018

- Designed and developed a Video Analytics solution for Ministry of Information and Broadcasting, India
- Achieved 60 % reduction in video length through Video summarization and a real time Object detection
- Technologies – Python, TensorFlow, OpenCV

Member, Team I²IT, Semicolons Hackathon, Persistent Systems, Pune

Feb 2018

- Implemented Music Generation using RNN-LSTM networks with 92 % training accuracy on MIDI data
- Technologies – Python, Keras

Technical Skills

Programming

Python | C | Java | Javascript

Software Tools

Jupyter Notebook | Anaconda | Git | Android

Databases

MySQL | MongoDB | Firebase

Machine Learning and Deep Learning

Linear and Logistic Regression | SVM | KNN
Naïve Bayes | Decision Tree | K-Means | PCA
CNN | RNN-LSTM | Autoencoders

ML Frameworks and Libraries

TensorFlow | Keras | sklearn | Pandas | OpenCV

Projects

Medical Assistant Chatbot – MyMD

- Developed a medical assistant **chatbot** for diagnosis of user's general health concerns
- Worked on **NLP** system which extracts medical terms from input and implements symptoms checker
- Achieved the average response time of 0.5 seconds on **Android** application through **REST** API

Convolutional Neural Network Course Projects

- Image classifier for SIGNS, CatVsDogs, Fruits and many other datasets from **Python** and **TensorFlow**
- Implemented YOLO object detection for self-driving car and Art generation - Neural style transfer
- Applied **Transfer Learning** to recognize grocery products using Inception V3

Certification

- **Deep Learning**, a 5-course specialization by deeplearning.ai on Coursera
- Convolutional Neural Networks in TensorFlow by deeplearning.ai
- **Machine Learning** by Stanford University on Coursera
- **Data Analysis** with Python by IBM