NARENDRA NATH JOSHI

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Grad student interested in machine learning, information retrieval and artificial intelligence

EDUCATION

CARNEGIE MELLON UNIVERSITY, SCHOOL OF COMPUTER SCIENCE — Pittsburgh, PA
Master of Science in Intelligent Information Systems — Dec 2017

- COURSES (Fall 2016): Machine Learning, Search Engines, Language and Statistics

PES INSTITUTE OF TECHNOLOGY, DEPT. OF COMPUTER SCIENCE — Bangalore, India
Bachelor of Engineering in Computer Science — Jun 2015

- GPA: 9.29 / 10
- COURSES: Algorithms, Data Structures, Databases, Data Mining, Natural Language Processing, Social Network Analysis

EXPERIENCE

SENSARA TECHNOLOGIES — Bangalore, India
Product Engineer — Aug 2015 – Jul 2016

- Worked on information retrieval from Wikipedia (infobox + content) for actors, crew and titles
- Worked on data warehousing and OLAP with television program and ad data
- TECHNOLOGIES: Python, NLTK, Django, Jinja

INTUIT INC, INDIA DEVELOPMENT CENTRE — Bangalore, India
Co-op Engineering Intern — Jan 2015 - Jun 2015

- Worked on mint.com REST APIs as part of Mint Platform team
- TECHNOLOGIES: Java, Python

PROJECTS

Driver Fatigue Detection System — PESIT, BE Capstone Project

- Computer Vision and Machine Learning based project focused on real-time video processing on face
- Detected yawns and measured eye blink durations and frequencies
- Published in IEEE International Conference on Signal and Image Processing, China 2016
- TECHNOLOGIES: Python, OpenCV

Customer Care Bot for Mobile Phone Sales — PESIT, Natural Language Processing Course Project

- Machine Learning and Natural Language based text-based customer care bot for mobile phone sales
- Used in-house data to train question-answering model using MaxEnt classifiers and Markov models
- Handled spelling mistakes and shorthand (SMS/text) lingo
- TECHNOLOGIES: Python, NLTK, NumPy, SciPy

Image Classifier — Indian Institute of Science, Machine Learning Competition

- Wrote an image classification algorithm which trains a classifier for five classes of images like images containing shoes, faces, houses, flowers and the rest
- Achieved a classification accuracy of 70.2% on a fairly diverse test set using non-linear Support Vector Machines
- TECHNOLOGIES: Java, Weka Machine Learning library

SKILLS

- PROGRAMMING: Python, Java, JavaScript, Android, HTML/CSS, PHP
- TOOLS AND FRAMEWORKS: Weka ML library, Python NLTK, OpenCV, Django, Flask, Jinja

ADDITIONAL INFORMATION

- Best Capstone Project (Social Impact), PESIT 2015
- Top 3 in SAP Lumira Hackathon, SAP 2014
- Won Intuit Android Hackathon, Intuit 2014
- Finalist, IBM The Great Mind Challenge, 2012

GITHUB: github.com/narendranathjoshi

LINKEDIN: linkedin.com/in/narendranathjoshi