NARENDRA NATH JOSHI

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# 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

# 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](http://mint.com/) REST APIs as part of Mint Platform team
* TECHNOLOGIES: Java, Python

# PROJECTS

Question Generation from Dialog Data (Ongoing) Carnegie Mellon University, Research Project

* Working on SmartReader, an automatic question generation system from dialog data under Prof. Teruko Mitamura meant for teaching high school kids English
* Using Bolt English discussion forums from UPenn LDC as dataset and applying supervised techniques at named entity recognition and co-referencing and event co-referencing
* Generating questions and answers from co-references and evaluating the questions generated

Driver Fatigue Detection System PESIT, Bachelor of Engineering Capstone Project

* Computer Vision 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
* Achieved 65% precision and 71% recall using 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

# SKILLS

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

# ADDITIONAL INFORMATION

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| * Best Capstone Project (Social Impact), PESIT 2015 | * Won Intuit Android Hackathon, Intuit 2014 |
| * Finalist, SAP Lumira Hackathon, SAP 2014 * Finalist, Ayana 2014, PESIT’s annual hackathon | * Finalist, IBM The Great Mind Challenge, 2012 |