

Onkar Pandit

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Education

- *Doctor of Philosophy* - Computer Science
Natural Language Processing
INRIA, Lille, France Dec. 2017 - present
- *Master of Technology* - Electrical Engineering (7.0/10.0)
Specialization - Signal processing and communication networks
Indian Institute of Technology, Kanpur Jul. 2012
- *Bachelors of Technology* - Electronics and Telecommunications Engineering (8.37/10.0)
Shri Gurugobind Singhji Institute of Engineering and Technology, Nanded, Maharashtra May 2010
- *Higher Secondary Certificate* (87.33/100.0)
Maharashtra State Board Jun. 2006
- *Secondary School Certificate* (87.06/100.0)
Maharashtra State Board Jun. 2004

Experience

- Indian Statistical Institute, Kolkata — Kolkata, India
- *Project Scientist* Jul. 2016 – Nov. 2017
- Oracle India Pvt. Ltd. — Bangalore, India
- *Senior Member Technical Staff* Mar. 2016 – Jun. 2016
- Oracle India Pvt. Ltd. — Bangalore, India
- *Member Technical Staff* Jul. 2012 – Mar. 2016
- Indian Institute Of Technology, Kanpur — Kanpur, India
- *Project Associate* Jun. 2011 – Jul. 2012
- Indian Institute Of Technology, Kanpur — Kanpur, India
- *Teaching Assistant* Jul. 2010 – May 2011

Publications

- **Pandit O.**, Denis P., Ralaivola L., *Integrating knowledge graph embeddings to improve mention representation for bridging anaphora resolution*, Workshop on Computational Models of Reference, Anaphora and Coreference, to be held at COLING 2020.
- **Pandit O.**, Denis P., Ralaivola L., *Learning Rich Event Representations and Interactions for Temporal Relation Classification*, European Symposium on Artificial Neural Networks (ESANN-2019).
- Chaturvedi A., **Pandit O.**, Garain U., *CNN for Text-Based Multiple Choice Question Answering*, Association for Computational Linguistics (ACL-2018).
- Chakrabarty A., **Pandit O.**, Garain U., *Context Sensitive Lemmatization Using Two Successive Bidirectional Gated Recurrent Networks*, Association for Computational Linguistics (ACL-2017).
- Garain U., **Pandit O.**, Kise K., Augereau O. *Identification of Reader Specific Difficult Words by Analyzing Eye Gaze and Document Content*, International Conference on Document Analysis and Recognition (ICDAR-2017).

Awards and Achievements

- Oracle webcenter best employee'16 *Numero Uno* award.
- Part of Oracle webcenter best performing team'16 award.
- Ministry of Human Resource Development, India, postgraduate study fellowship in 2010.
- Secured 310 rank out of 1,00,000+ aspirants in Graduate Aptitude Test in Engineering 2010.

Projects and Research

Temporal Relation Classification, Coreference and Bridging Resolution
(*Ongoing PhD Thesis*)

Dec. 2017 – present

- Developed neural network based temporal events representation and interaction and showed competency of the architecture.
- Investigating approaches to combine external information with linguistic information for representation of mentions for coreference and bridging resolution.

Multiple choice question-answering

Jan. 2017 – Jan. 2018

- Involves *close-domain* question-answering based on the given paragraphs and multiple options including correct answer of the question.
- Jointly designed and developed a CNN based neural architecture for it.
- Showed that the proposed approach produces competent results.

Reading Behavior Analysis

Jan. 2017 – Apr. 2017

- Involves prediction of difficult words in a document from a readers' eye gaze data.
- Jointly proposed SVM based model and used both eye gaze data information and linguistic aspects of document to set new state-of-the art performance at 62%.
- Developed a system based on it in Python.

Lemmatizer for languages

Aug. 2016 – Mar. 2017

- Task of finding a root word from the given word(e.g. "went" to "go")
- Developed neural network based architecture for it and tested it against various languages such as Bengali, Catalan, Dutch, Hindi, Hungarian, Italian, Latin, Romanian and Spanish.
- Achieved new state-of-the-art results with proposed architecture with all languages except Bengali.

Oracle Big Data Preparation Cloud Service(BDP)

Sep. 2015 – Jun. 2016

- NLP based product, which processes ingestion, preparation, enrichment, and governance of data automatically.
- Contributed to the product development process since its conception.
- Worked as a part of infrastructure provisioning team.
- Developed various tools to enhance the productivity of team.

Oracle Webcenter Portal

Jul. 2012 - Aug. 2015

- Includes WebCenter Portal services like instant messaging, document and content management, discussion forums, wikis, blogs, tagging, activity tracking, personalization, polls, and others.
- Worked on the software development of Portal Security, Notifications, Notes, Relations, etc services.
- Improved test automation framework to catch defects effectively.

Detection of signal in cognitive radio with cyclostationarity (*M.Tech Thesis*)

May 2011 - Jun. 2012

- Cognitive Radio works on the principle of opportunistic communication.
- Detecting the vacant frequency band in cognitive radio is crucial step.
- Proposed a method for detection of signal using signal's cyclostationarity property.

Skills

- *Programming Languages:* Python, Java, R and C
- *Software:* Tensorflow, Keras, Sklearn, L^AT_EX
- *Operating Systems:* Linux/Unix system, Windows