

Akshay Parekh

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My research work centers around Natural Language Processing, Information Extraction & Deep Learning, mainly focusing on Large-scale Relation Extraction.

EDUCATION

- **Indian Institute of Technology Guwahati** Guwahati, India
PhD, Thesis Topic: Large Scale Relation Extraction, Advisors: Dr. Ashish Anand & Dr. Amit Awekar July. 2016 –
- **Center for Development in Advanced Computing (CDAC)** Hyderabad, India
Diploma in System Software Development(DSSD); CGPA: 73.25% (Batch Topper) Feb 2014 – Aug 2014
- **G. H. Rasoni College of Engineering** Nagpur, India
Bachelor of Engineering in Computer Science & Enineering; CGPA: 72.40% July 2009 – May 2013

ACADEMIC EXPERIENCE

- **Indian Institute of Technology** Guwahati, India
Research Scholar July 2016 –
 - **CS 110 Programming Language Lab:** Teaching Assistant
 - **CS 210 Data Structure Lab:** Teaching Assistant
 - **CS 565 Intelligent System and Interfaces:** Teaching Assistant
 - **CS 242 System Programming Lab:** Teaching Assistant

INDUSTRY EXPERIENCE

- **IBM Research Labs** Bangalore, India
Research Intern May 2019 - Aug 2019
 - **Relation Extraction for Ontology Learning:** Relation Extraction, NLP, DL & Ontology Graphs

STARTUP EXPERIENCE

- **Digitales Communications Pvt. Ltd.(Startup)** Mumbai, India
Software Engineer Jan 2015 - June 2015
 - **Shopista:** Web Scraping, Information Extraction & Android UI Designer

PUBLICATION

- **Taxonomical hierarchy of canonicalized relations from multiple Knowledge Bases**
Akshay Parekh, Ashish Anand, Amit Awekar [arxiv.org/1909.06249](https://arxiv.org/abs/1909.06249)

RESEARCH WORK IN PROGRESS

- **Large scale dataset fine-grained Relation Extraction**
Akshay Parekh, Ashish Anand, Amit Awekar **Target:** December 2019

PROJECTS

- **Generating Knowledge Graph from Wikipedia Infobox:** Course Project for Intelligent System Interfaces, developed in Python using wiki-api and regex.
- **Search Engine:** Course Project for Fundamental of Information Retrieval, developed in Python using flask and whoosh.
- **Recommendation System:** Machine Learning project for Movie recommendation. Developed in Python using scikit-learn.
- **Packet Filtering Firewall for Linux Kernel:** Course project for DSSD, developed in C/C++ using iptables, netfilter and Linux Kernel module.

TECHNICAL SKILLS

- **Languages:** Python, C, C++
- **Web-Technologies:** HTML, CSS
- **ML-DL:** Numpy, Pandas, Matplotlib, Scikit-learn, Tensorflow
- **NLP:** NLTK, spacy
- **Operating System:** Windows, Linux(Ubuntu)
- **Tools:** Android Studio, Ipython, Jupyter, Latex

KEY COURSES

- **IITG CS512:** Design & Analysis of Algorithms
- **IITG CS570:** Fundamentals of Information Retrieval
- **IITG CS565:** Intelligent Systems & Interfaces
- **IITG CS561:** Artificial Intelligence
- **CDAC DSSD:** Linux System Programming
- **CDAC DSSD:** Linux Kernel Programming

ACHIEVEMENTS

- **Persistent Systems Pvt. Ltd., SemiColon 2012, Hackathon:** Winner

TALKS

- **Workshop: AI in Healthcare 2019, IIT Guwahati:** Hands-on session on Deep Learning