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. Raisoni 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

Research Work in Progress

- **Constructing Relation Hierarchy for Relation Extraction**
  Akshay Parekh, Ashish Anand, Amit Awekar — ***Target:*** *May 2019*
- **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, netfileters 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, IIT Guwahati**: Hands-on session on Deep Learning