

NIKHIL BADUGU

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Available: May-December 2018

EDUCATION

Northeastern University, Boston, MA.

GPA: 3.5 / 4.0

Sept 2017 – Present

College of Computer and Information Science

Expected Graduation: Dec 2019

Candidate for a Master of Science in Computer Science

Related Courses: Programming Design Paradigms, Algorithms, Machine Learning and Natural Language Processing

University of Mumbai, Mumbai, India

Bachelor of Engineering in Computer Engineering

Aug 2012 – May 2016

Related Courses: Data Structures, Algorithms, Databases, Operating Systems and Machine Learning

TECHNICAL KNOWLEDGE

Languages:

Python, C, JAVA, Racket, HTML, CSS

Databases:

MySQL, SQLite, MongoDB, Redis, Memcached

Technologies:

Django, Flask, Falcon, Celery

Machine Learning Frameworks:

Tensorflow, Theano, scikit-learn, spacy.io

Software and Tools:

Vim Editor, Eclipse, NLTK, Elasticsearch, Git, Jenkins

WORK EXPERIENCE

Flochat, Mumbai, India.

Oct 2016 – July 2017

AI/ML Engineer

- Developed a Machine Learning and Natural Language Processing (NLP) based personal assistant chatbot (Floda) in collaboration with two other team members. Flochat app has over 3 Million downloads on Android play store.
- Developed NLP Engines using CFGs, chunkers and dependency parse trees, developed customized NER, Transliteration and contextual spell checking modules for English and other regional Indian Languages.
- Developed REST APIs using Python Falcon framework, developed a distributed task queue using Celery and implemented a centralized logging system using Fluentd and MongoDB.
- Performed statistical analysis and visualization using Python Pandas and matplotlib on user-chatbot messages.
- Short video demonstration of the chatbot:
https://drive.google.com/file/d/1SHgUPy69PEs8NcQbNCV-f5yoJ3_6H-6S/view?usp=sharing

Ori Serve, Mumbai, India.

June 2016 – Aug 2016

Machine Learning Intern

- Developed Recommendation System using NLP, Machine Learning algorithms and Python Flask framework.
- Performed data cleaning, statistical data analysis using Python pandas and scikit-learn on customer data.

ACADEMIC PROJECTS

Research Project: Argument Mining

Jan 2018 – Present

- Currently working under Professor Lu Wang (Northeastern University) on Argument Mining Research Project.
- Collected and processed openreview.net data and stored in MongoDB, performed NLP and statistical analysis of all the reviews and comments of each journal papers, to detect argument structure, phrases and patterns.

Spam Classification and Filtering Application

Sept 2015 – March 2016

- Created Machine Learning models and web applications to accurately identify spam email messages.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Invited to present a seminar on *NLP and its Applications* to University of Mumbai undergraduate sophomore students.