

Shruti Singh

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EDUCATION

DHIRUBHAI AMBANI INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGY
BACHELOR (HONS.) IN INFORMATION AND COMMUNICATION TECHNOLOGY WITH MINOR IN COMPUTATIONAL SCIENCE
2013 - 2017 | Gandhinagar, Gujarat

CENTRAL BOARD OF SECONDARY EDUCATION
HIGHER SECONDARY SCHOOL
MATHEMATICS & COMPUTER SCIENCE
2013 | Kendriya Vidyalaya ONGC
Ahmedabad, Gujarat

SKILLS

PROGRAMMING

Over 5000 lines:

Java • Python

Over 1000 lines:

C • C++

TECHNOLOGIES

Elasticsearch • MongoDB • MySQL
Apache Kafka • Apache Lucene • Flask
Docker • Git • Sklearn • Gensim
Stanford CoreNLP • Wordnet • NLTK
Spacy • OpenCV • OpenMP • CUDA

KEY COURSEWORK

Operating Systems
Database Management Systems
Software Engineering
Object Oriented Programming
Data Mining and Warehousing
Data Analysis and Visualization
Information Retrieval

RESEARCH INTERESTS

Natural Language Processing
Machine Learning
Text Mining
Knowledge Graphs
Ontology Construction

ACTIVITIES & SOCIETIES

Core Committee Member - DA-IICT
Programming Club
Editor - Entelechy (University Magazine)
Co-organizer & Speaker - ACM DA-IICT
Chapter

EXPERIENCE

RAXTER.IO | RESEARCH ENGINEER

Feb 2018 - Present | Gandhinagar, Gujarat

- Implemented a system that extracts key information from a research paper such as the problem statement, approach, evaluation techniques, results and datasets for the purpose of scientific literature knowledge graph construction.
- Implemented a Q-Learning based literature recommendation system that adapts to the evolving research need of the user with time.

SPRINKLR INC. | PRODUCT ENGINEER

Jan 2017 - Feb 2018 | Gurgaon, Haryana

- De-duplication of large scale incoming web data fetched from multiple sources, of the scale of 25 million documents/day ensuring minimal latency.
- Language detection module for close languages Malay and Indonesian.
- Setup the natural language pipeline for Asia Pacific languages on the Sprinklr Listening platform.

RESEARCH

RYGBEE INC. | RESEARCH INTERN

Sep 2015 - Aug 2016

- Worked in the team that created a tool which recommends research papers and other resources to the user given a problem description.
- Worked on the back-end of the literature recommendation system. Used Python and Elasticsearch.

KNOWLEDGE DISCOVERY AND MANAGEMENT LAB | RESEARCHER

May 2014 - Aug 2015 | DA-IICT | Mentor: Prof. Sourish Dasgupta

For a description logic based ontology learning tool DLOL, worked on:

- Numeric-Unit Normalizer module to normalize numeric quantities written in natural language and occurrences of phrases representing magnitudes of physical quantities to standard SI units.
- Annotation module to determine similarity between sentences based on their SVO triples. Reconstructed the ancestral hierarchy of nouns from WordNet for efficient lookup to facilitate calculation of relatedness between nouns.

ACADEMIC PROJECTS

- Cross Lingual Query Translation for Supporting Text Queries in Different Languages | Course: Information Retrieval
- Analyzing Patterns in Social Learning: Stack Overflow and the DOTA Community | Course: Complex Networks
- Character Recognition in Google Street View for Automated Geo-tagging using K-nearest neighbours | Course: Data Mining and Warehousing
- Parallelization of CYK Syntactic Parsing on GPU | Course: Introduction to GPU Programming
- Cellular Automata Simulation to Model Forest Fire Spread | Course: Modelling and Simulation

AWARDS

- Certificate of merit for being in top 1.5% students in the CBSE AISSEE 2013.
- 'Dhirubhai Ambani SSC Merit Reward' for outstanding performance at CBSE AISSEE 2011.