VIVEK IYER

IRE Researcher @ IIIT-H | Google Summer of Code 2018

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RESEARCH EXPERIENCE

IRE Researcher

Software Engineering Research Centre, IIIT-H

August 2018 - Present

♥ Hyderabad, India

Ontology Enrichment using LSTMs: A Deep Learning solution to Ontology Enrichment. Bidirectional LSTMs are used to semantically understand sentence structure in order to extract relevant concepts and relationships.

Working towards SIGKDD 2020

- Ontology Evaluator: An ontology quality evaluation tool that uses
 Machine Learning (Support Vector regression) to score and rank ontologies by syntactic and semantic quality
 Submitted to ICSE 2020
- Ontology Visualization & Validation: Crowdsourced ontology validation by using ontologist's Twitter credibility as quality control
- Ontology Enrichment Survey: A survey of the four most seminal papers in Ontology Enrichment (Guided Clustering, FCA, C-Pankow and Word2Vec), containing implementation, results and analysis.
 Published at ICON 2019

WORK EXPERIENCE

GSoC Developer @ XWiki

Google Summer of Code

May 2018 - August 2018

♀ Remote

- Added language support for Velocity Template Language in Google Blockly
- Created a new Blockly toolbox to generate Velocity code for common XWiki scripting actions and packaged and shipped it as an XWiki extension
- Worked in a remote organization, had regular weekly meetings, interfaced with team members, followed coding best practices and documented all my work for the entire 3 month period

ML/NLP Research Intern

ZingHR

June 2017 - August 2017

Mumbai, India

- Engineered, developed and packaged a **resume parser** which used **Machine Learning** to recognize different sections of the resume and extract relevant fields.
- Contributed significantly to the development of the ZingHR Mobile App, built using Backbone.JS and Marionette.JS frameworks
- Coordinated with large number of team members to develop the application and interfaced extensively with Microsoft employees who had a stake in the development of the resume parser and were overseeing the entire project

EDUCATION

B.Tech. + MS by Research in CSE

IIIT Hyderabad

2016 - Present

♥ Hyderabad, India

Currently enrolled in a dual degree B.Tech + MS by Research (IRE) course at IIIT-H Expected Graduation Year: 2021

RESEARCH INTERESTS



PROJECTS

Wikipedia Search

• A mini search engine that allows the user to search for articles on Wikipedia.

FAQ Chatbot

- An FAQ chatbot built using the Encoder-Decoder with Luong Attention model and trained on the Microsoft Frames dataset.
- Won first prize at the IIIT-H Walmart Hackathon 2019.

Question Generation System

- A Question Generation system that uses the Stanford CoreNLP Parser to parse factoids from Wiki articles into questions
- Outputs a list of questions ranked by syntactic and semantic relevance

Wiki Article Generator

• Generates Wikipedia articles in Hindi from their corresponding pages in Wikidata

TECH SKILLS



RELEVANT COURSES

Artificial Intelligence	NLP Applications	
Statistical Methods in Al	NLP	SSAD
Research Methodologies	Math	s IRE