# **VIVEK IYER**

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

🗘 Remorax % remorax.netlify.com in vivekiyer98 @ vivek.iyer@research.iiit.ac.in 📞 +91-9167381316 👂 Hyderabad, India

# **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.
- Ontology Evaluator: An ontology quality evaluation tool that uses
   Machine Learning (Support Vector regression) to score and rank ontologies by syntactic and semantic quality
- 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.

### **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**

multiple 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

Ontologies Knowledge Graphs IRE

Deep Learning Machine Learning

Semantic Web Text Mining NLP

### **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 A	NLP SSA	\D
Research Methodologie	es Maths I	RE