VIVEK IYER

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

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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 **Epsilon-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. **Published at ICON 2019**

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

Open Source Developer

FOSSASIA

 Sep 2017 - March 2018   Remote

- Contributed extensively to the FOSSASIA open-source projects susi.ai, query-server, susper.com, publiccode.asia and pslab.io.
- Created issues, made commits, created PRs, reviewed PRs and successfully completed FOSSASIA's CodeHeat challenge.

Machine Learning 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.
- 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

C   C++   PHP   Matlab   Python
C#   Javascript   Tensorflow   Keras
Pytorch   CUDA   NLTK   bash

RELEVANT COURSES

Artificial Intelligence   NLP Applications
Research Methodologies   NLP   SSAD
Statistical Methods in AI   Maths   IRE