Nihal V. Nayak

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• https://iampuntre.github.io

EDUCATION

• M. S. Ramaiah Institute of Technology, Bangalore, India Bachelor of Engineering, Information Science and Engineering 2013 - 2017

EXPERIENCE

• Stride.AI

NLP Engineer

November 2017 - Present

- Contributed to the Research and Development of bi-LSTM based Multilingual Low Resource Entity Extraction System. Our system outperforms the current State Of The Art for Financial NER Dataset. Our system scores F1 = 87.48 (current SOTA F1 = 82.1) (Dataset)
- StrideSDK Developed a proprietary python package for Information Extraction (IE). The library allows developers to build heuristics for extraction of datapoints from unstructured PDF documents.
 The library is being used in 20+ projects.

Summer Intern June 2016 - August 2016

• Involved in data scraping using NLP (Natural Language Processing) and Python, to parse third party public portals to get key data points.

• DESE (formerly CEDT), Indian Institute of Science

Advisor: Prof. H. S. Jamadagni

Project Assistant

August 2017 - November 2017

• Contributed on Video Analytics project: Reconstruction of papers on Crowd Detection. Involved in data creation and validation of 5 sub-components in the project.

Project Intern July 2015 - July 2017

- Developed a novel vocabulary flashcard application which incorporates Testing Effect through production tests and grades the user's text response using an alignment based short answer grading algorithm. Published at Student Research Workshop ACL 2017.
- Developed a web application for Ministry of Micro, Small and Medium Enterprises (Govt. of India) to digitize application process at the IISc MSME Centre of Excellence.

PUBLICATION

- Nihal V. Nayak and Arjun R. Rao. Context Based Approach for Second Language Acquisition. 13th Workshop on Innovative Use of NLP for Building Educational Applications (BEA at NAACL 2018), New Orleans, USA. (Link)
- Nihal V. Nayak, Tanmay Chinchore, Aishwarya Hanumanth Rao, Shane Michael Martin, Sagar Nagaraj Simha, G.M. Lingaraju and H.S. Jamadagni. V for Vocab: An Intelligent Flashcard Application. 55th Annual Meeting of the Association for Computational Linguistics Student Research Workshop (ACL 2017), Vancouver, Canada. (Link)
- Mydhili Nair, **Nihal Nayak** and Arjun Rao. **Data Migration Techniques from SQL to NoSQL**: *Database for Storage and Retrieval of Data in Cloud*. Chapman and Hall/CRC, 2017. (Link)

ACHIEVEMENTS

- Received travel grant from Association for Computational Linguistics to attend ACL 2017 in Vancouver, Canada.
- Best Outgoing Student (2013-2017) from Department of Information Science and Engineering, Ramaiah Institute of Technology.
- Received USD 2000 for winning 2015 IEEE/IBM Watson Showcase (Worldwide Competition on Cognitive Computing) for project Wordinator (Link).

PROJECTS

• Context Based Approach for Second Language Acquisition

BEA13 at NAACL 2018

- Trained logistic regression model to predict the likelihood of a student making a mistake while answering an exercise on Duolingo. Used features inspired by research in code-mixed language-learning where context plays an important role.
- Result: AUROC scores for English/Spanish = 0.821, Spanish/English = 0.790 and French/English = 0.812. 2nd best linear model, finished overall 9th in SLAM 2018. (Link).

Wordinator

IEEE / IBM Watson Showcase 2015

• Developed a reverse dictionary to help language learners with "Tip of the Tongue" moments. Trained IBM Watson's Natural Language Classifier with word-meaning labels scraped from the Internet.

TECHNICAL TALK

• Sentiment Analysis on Demonetization in India in Faculty Development Program on Cognitive Computing at M S Ramaiah Institute of Technology (January, 2017).

PROFESSIONAL SERVICE

Reviewer: ACL SRW 2018Volunteer: ACL 2017

LEADERSHIP ROLES

- Student Representative in the College Sports Committee for Athletics for the years 2015-16, 2016-17. Captain of Athletics team for the year 2016-17. Under my captaincy, the team won the 1st Inter-GEF Annual Athletics Meet.
- Coordinator (Head of Operations) for TEDxMSRIT 2016. Managed and assigned tasks to volunteers in 4 departments logistics, design, ticket sales and social media.
- Overall Coordinator for IEEE Women in Engineering(WiE) Chapter in MSRIT 2015. Coordinated with 50+ volunteers across different departments.