HARIKA SAMALA

SENIOR DATA SCIENTIST

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♥ Bangalore, India

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CAREER SUMMARY

A passionate data scientist interested in solving NLP based problems. Looking for opportunities to enhance domain skills by providing assuring service to company.

EDUCATION

Graduation at PES University Bangalore

Computer Science and Engineering
 Intermediate Education, Andhra Pradesh
 Secondary School, Andhra Pradesh
 Score: 97%
 Score: 9.8 (GPA)

WORK EXPERIENCE

Niyo Solutions

Senior Data Scientist

Apr 2020 - Present

- Pangalore, India
- Niyo Solutions is a Fin-tech company providing platform for traditional banks to provide digital and technical banking experiences.
- Working on building conversational AI Chat bot using NLP to enhance customer experience.
- Working for Niyo money app to recommend users about mutual funds and stocks through our platform.
- Data Science Lead for Niyo Money APP Product
- Mentoring three candidates for other verticals of Niyo Products.

Youplus Inc

Data Scientist

🛗 July 2017 - Feb 2020

P Bangalore, India

 Youplus built Video Opinion Search Engine with product View which is a widget providing short-form consumer review videos to websites.

Model Development

- Built Information Retrieval system from scratch for view product using Elastic Search to retrieve the best relevant videos among million of videos for given page.
- Worked on distillation of Bert using Distil Bert methodology for category classification model which organizes data based on its product category.
- Developed a end to end pipeline POC for a product VIEW Non-Ecommerce and made it as a service using Flask and also used Redis for queuing next actions.

Technologies Elastic Search, MongoDB, BERT Model, Tensor Flow, NLP, BM25, Pyspark, DistilBert, Redis, Flask, MongoDB

Achievement Excellence Award 2019.

INTERNSHIP

Intern at IISc Bangalore

March - December 2016

- Intern under ANRC(Aircraft Network Research Consortium) under the Boeing-IISc-HCL-Wipro Research initiatives in India for project ON BOARD STREAMING VIDEO PROJECTION
- Ideology is if position of the user is given then irrespective of projector's position and nature of the surface image is shown perspectively correct on the projector of Airplanes having curved surfaces

DEEP LEARNING TUTOR

Business Toys Private Limited

• On Weekends I will teach and mentor both students and experienced employees.

DATA SCIENCE PROJECTS

Siamese-Network-To-Identify- Duplicate-Question-Pairs

- Identify Similar Question Pairs using Siamese Neural Network having two identical neural networks, each network taking one question.
- The last layers of the both networks are fed to Manhattan Lstm model, predicting the similarity between questions with relevance score.

Category Classification For Products

- Classifying data to their respective product category for organization of data.
- Developed the model using BERT since BERT model is taking more time to infer the results tried to optimize the model to smaller model by recent technology DistilBert without down fall of actual accuracy and thereby reducing the time to retrieve results.

Intensity Based Sentiment Analysis

- Solving binary sentiment problem is easier but predicting the Intensity of the sentiment (if sentence is highly positive, positive, neutral, negative and highly negative) is tough problem where research is done to smaller extent.
- Developed Intensity Model using Bert fine tuning approach which crossed the state of Art model results along with distillation into the light weight model.

OTHER PROJECTS

Chat Bot conversational Layer

- With the help of NIp created a layer of sequence of understanding customer intent by and mapping the intent to categories
- Created a dashboard for analyzing weekly status of chat bot unanswered questions and mapping back this questions back to knowledge base.

Search Engine Using Elastic Search

- Developed an Search Engine from scratch to search Education blogs to find most relevant results for given search term.
- Worked on scraping the data, Cleaning data, Data visualization. Designing simple web page for showing retrieved results
- Able to sync real time data from mongoDB to Elastic search using Monstache.

Pothole Detection -Image Processing

- Applied Contour detection and Canny edge filter algorithms in Open CV to alert the vehicle driver in the presence of potholes and informing higher authorities same by mail generation.
- Selected for National Level Hackathon held at PES college

Coreference Resolution

- Developed co reference model to replace pronouns with their respective antecedants.
- During First phase implemented End to End Neural co reference model by using span representations for text in co reference architecture. To optimize performance constraints developed another model using Span Bert Methodology

SHUF-CUPS, An Interactive Game

August 2017

Pesit

- An Interactive game where the user is shown with three cups and a ball in the initial position. Cups are allowed to shuffle and user is asked to predict the current location of ball.Based on the answer appropriate audio is played.
- Tools:C,OpenGL

PROJECT SCI BASE, Active Team Member

Feb 2016 - Dec 2017

♀ Pesit

- Project aim is to create a repository and web-dictionary of Scholastic Information System using Machine Learning.
- Worked on data creation, manipulation created graphical database. Have written the research paper on same under supervision of mentors
- Tools: Python, Neo4j,Scrapy
 Supervisor: Dr.Snehanushu Saha

COURSES & CERTIFICATIONS

- Certification of NLP in Tensor Flow From deep learning.ai
- Machine Learning and Deep Learning Coursera Course by Andrew NG
- Active Learning by B, Burr Settles
- Information retrieval by Manning
- Information Retrieval and Mining Massive Data Sets
- Searching & Analyzing Data with Elastic Search -Plural Sight
- Definitive Guide Elastic Search Udemy
- Python Coursera Specialization by Rice University
- Python Zero To Hero and ML course udemy

ACTIVITIES

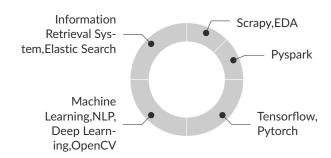
- Participating in NGO Activity Say Trees
 Plantation by planting Saplings in Bangalore over weekends
- Participated in Teaching and maintenance activities of Govt school during weekends.

BLOGS

Writing the summary of top research papers and latest technologies in Artificial Intelligence with clear visual representations and explaining the content in layman terms as in mentioned link.

https://medium.com/@harika3196

DATA SCIENCE SKILLS



SOFTWARE SKILLS

