VYBHAV JAIN

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EDUCATION

Ramaiah Institute of Technology, Bengaluru, India

2016 - 2020

Bachelor of Engineering in Information Science and Engineering

CGPA 9.45/10 | Best out-going student | Second rank | Best Project Award for Thesis

SKILLS

Programming Languages: Python, C. Java, Julia, VBScript, SQL, Go, JavaScript, R

Tools and Frameworks:, MongoDB, Flask, UFT, Pandas, Numpy, Matplotlib, Scikit-learn, SQLAlchemy, Git, NLTK

Industry Knowledge: Machine learning, Data Analysis and Visualization, Design patterns, NLP, Tool Development, Agile methodology, Object Oriented Programming, Regression Testing, JIRA, Data Scraping

EXPERIENCE

Software Engineer, Shell India Market Limited, Bengaluru

Sep 2020 - Present

- Designed, built and executed automated tests using VBScript to validate data centric applications
- Maintained and modified an Automated Regression Suite based on testing needs
- Designed and developed automation tools using Python to reduce manual effort by 95%
- Drove root cause analysis and resolution approaches in cases of failures

Trainee - Artificial Intelligence, Maistering B.V, Bengaluru

June - July 2020

Mar - June 2020

- Intern Artificial Intelligence Engineer, Maistering B.V, Bengaluru

 Built API endpoints and integrated them with Flask and Swagger
 - Manipulated Data from an SQL server using pyodbc and SQLAlchemy
 - Integrated various cognitive services like OCR, Image Processing, Matrix Detection using CV2 and PIL into the masters collection
 - Designed a document tagging and classification system using the module NLTK and an automatic report generator using the module PPTX

Mobile Application Developer Intern, NSRCEL, Indian Institute of Management Bengaluru

Aug - Sep 2018

- Developed a token-based internet access system application names "NSRCEL-WiFi" for IIMB
- Issued a public authentication key to eligible mobile clients during registration after OTP authentication
- Built a mobile application using Java in Android Studio, stored data using Firebase and accessed it using javascript

PUBLICATIONS AND PRESENTATIONS

- Published "Multi-Agent Based Systems In Machine Learning and its Practical Case Studies" in the book "Machine Learning for Intelligent Decision Science", Springer in 2020 [Link]
- Presented "Emotion Analysis from Human voice using various prosodic features and text analysis" during International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA 2019) and published in the "Journal of Computational and Theoretical Nanoscience" [Link]

PROJECTS

Fabrication of Images From Audio (F.I.F.A)

- Created a Flask web framework containing endpoints to synthesize facial images from speech using StackGAN and ProGAN
- Trained Deep Learning model on Face2Text v1.0 dataset in 5 epochs with each epoch containing different numbers of sub epoch based on the image resolution levels
- Converted the audio to text using Google Speech to Text AP and encoded the textual description into a mathematical vector called text embeddings using a LSTM network which passed to the generator model [Link]

Image Retrieval along with Encoded Storage and Tagging (I.R.E.S.T)

- Created APIs' using the Flask web framework to implement a keyword based program that searches relevant images from a given website and downloads it after which it auto tags these images and uploads the images to cloud service
- Created a GET request that queries stored images with a keyword and displays top 5 relevant images [Link]

Emotion Analysis from Human Voice

- Designed and Implemented an application that outputs an emotional analysis on a given voice sample
- Used statistical models to combine the results of Sentiment Analysis of text using IBM Watson Tone Analyzer and the prosodic analysis of speech using the parselmouth module

Wumpus world

- Developed The Wumpus world simulator in Java using the concept of frames to create an interactive GUI
- Implemented code followed design patterns like adapter pattern and strategy pattern to demonstrate the importance of knowledge representation, reasoning and planning in AI [Link]

ACHIEVEMENTS

- Placed in the top 100 from over 1,00,000+ participants in the National Engineering Challenge 2019
- **Best Programmer 2018** title during Artificial Intelligence and its Application course organised by Department of Computer Science and Engineering, Ramaiah Institute of Technology
- National Finalist for the hackathon Codechef 2019 organized by Cognizant Bengaluru
- Runners-up at the hackathon CodeforGood 2019 by J P Morgan Chase, Bengaluru

EXTRA-CURRICULAR ACTIVITIES

- Co-founder and Head Numera, the logic and reasoning club at Ramaiah Institute of Technology, Dec 2018 May 2020
- Volunteer Deendayal Janaseva Samithi, NGO focusing on spreading awareness about women literacy, 2018 2019
- Treasurer IEEE CIS club in RIT 2018-2019 and organized workshops and managed funds
- Event organizer for 'Code Rush 2019' IEEE Women In Engineering at Ramaiah Institute of Technology
- In-charge of documentation, NEN-E-WEEK 2018 by Entrepreneurship Development Cell, Ramaiah Institute of Technology