VISHESHA SADU

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Education

Master of Science in Computer Science **January 2022 – August 2023**
University of Florida - Gainesville, Florida GPA: 3.77/4.0
Bachelor of Technology in Information Technology **August 2016- June 2020**
National Institute of Technology-Patna, India GPA*: 7.7/10.0*

Technical Skills

General Programming: C, C++, Python, Java, Golang, PHP, JavaScript, Erlang
Databases: MySQL, SQLite, MongoDB, Oracle(PL/SQL)
Markup and Style Sheet Languages: HTML, CSS, XML
Libraries and Frameworks: OpenCV, TensorFlow, Keras, DJANGO, Bootstrap, Streamlit, Gin, Angular, React, NodeJS, GORM
Others: Machine Learning, Deep Learning, Linux, Natural Language Processing, Web Development, Computer Vision, Git, Postman

Work Experience

Software Engineer | Nokia Solutions and Networks, Gurgaon, India. **July 2020 – December 2021**
Technologies Used: CPP, Java, C, Linux, Solaris OS, Oracle, Shell Scripting, Python.

- Collaborated in providing L4 operation development and support for issues like troubleshooting the platform and scripting out manual tasks using the shell.
- Analyzed database errors and worked on database tuning in different flavors of Unix OS for (IN) Customers globally.
- Resolved platform issues related to memory, space, and databases and worked on tasks related to RedHat Linux, SQL, Oracle, Applications, and data replication in telecom charging products and platforms for 10 clients across the world.
- Engaged in end-to-end Maintenance, Analysis of Problems, testing, development, and issue resolution for over 50 issues for 5 clients in the Intelligent Networks.

Research Intern | Samsung R&D Institute India, Noida, India **January 2020 – April 2020**
Technologies Used: Python, NLP, Java, Android Development

- Designed and facilitated the development of a project called 'Character, Emotion and Summary extraction from the text' using techniques such as entity extraction with POS tagging, using Bert (NLP), resulting in 10% higher accuracy.
- Coordinated the evaluation and analysis of over 20 proposed patent ideas as a part of the R&D team for publication.
- Evaluated the root causes of issues and developed an Android feature to reduce the redundant issues generated by 15% in the platform services team.

Project Assist at NIT PATNA, T&P cell, Patna, India **May 2019 – July 2019**

- Implemented Virtual College Assistant using Java, SQLite, AIML, and Android Studio technologies.
- Created an Android application that acts as a college assistant for students and provides answers to queries. This app helps 4000+ new college students along with 1000+ new incoming students every year

Projects

Globe Scanner | Angular, Golang, Gin framework, Gorm, SQLite

- Built an open-source trip advisor website accessible across 100+ countries using Golang's Gin framework and Angular.
- Millions of people will benefit daily to become better travelers, from planning to book or take part in a trip.

Object Detection and Recognition System | TensorFlow, PyTorch(Deep Learning), OpenCV(Computer Vision).

- Developed a real-time object detection and recognition system using deep learning techniques such as YOLO, SSD, or R-CNN.
- Integrated image processing algorithms and created a user-friendly interface for seamless input of images or videos, providing accurate and efficient object detection results.

Text summarization of web pages | Python, KNN, TF-IDF, Machine Learning

- Built a text summarizer that extracts the summary top 50(user-given) individual web pages for any user query in a few seconds.
- Usage of TF-IDF, KNN Based co-relation scoring for extracting the summary by scraping the web pages in 30 % reduced time.

News bias detection | Natural Language Processing, Deep Learning, RNN, LSTM, TensorFlow, Keras

- Attempted detection of similarity and differences in trends of 10 different newspapers for different news using sentiment analysis of the text scraped from different news articles using Recurrent neural networks (LSTM).

Text to video POC | NLP, Machine Learning, CV2, Sumy, bs4, cv2, PIL

- User text or web URL as user input and extracted text from the web scraping or splitting the given text into queries for image search in web engines which reduced the time by 45%.
- Extracted images, converted to frames to a video, and added the audio formed by user-given text to the video in around 2 minutes

Certifications

DeepLearning.AI TensorFlow Developer Specialization- Coursera.
Complete Android N Developer, Linux for Developers, and Machine Learning course specialization from Coursera.