

Ishita Kundaliya

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EDUCATION:

Master of Computer Science
Rice University, Houston, Texas

Aug 2022 - Dec 2023

CGPA: 3.94/4.0

Tools models for Data Science , Web Dev, ML, DL for vision language, Design Analysis of Algorithms, Software Engineering Methodology

BTech, Computer Science Engineering

Aug 2017 - Jul 2021

Sreenidhi Institute of Science and Technology, Hyderabad, India

SKILLS:

Python, Java, C, C++, Databases, SQL, JavaScript, Tensorflow, Hadoop, Machine Learning, Natural Language Processing, Git, Windows, Linux, Data structures, Algorithms, MongoDB, React, Spring Boot, Google cloud platform, Google analytics, Node.js, Express.js, CI/CD, MERN stack, Flask, REST APIs, JSON, Firebase, Next.js, Docker, Jenkins, Django, TypeScript

EXPERIENCE:

Software Engineer - Hewlett Packard Enterprise

May 2023 - Present

Skills: Python, Flask, ReactJS, MongoDB, Linux, Git, Docker, Jenkins, CI/ CD Pipeline, Next.js, Typescript, Django

- Developing a frontend in next.js, typescript with approximately 50% of the git issues assigned.
- Building docker images and developing a CI/CD pipeline using Jenkins. Setting up a PXE Server to host various OS's.
- Engineered a full stack application which helped save at least 48 hours per operation. Used redfishClient API which uses ILO to extract the various hardware present on the servers and add it to a MongoDB database using Python.
- Implemented a cron job to refresh the database every night which will update as and when new servers are added. Designed a user interface in ReactJS which is used to search for the hardware and view it.
- Designed and implemented a backend in Flask by creating various REST APIs calls involving login, changing IP addresses for the cron job, adding and searching in the database, etc. This increased team efficiency by 70%.

Programmer Analyst - Cognizant

Jul 2021 - Aug 2022

Skills: Python, CNN, HTML, CSS, Flask, Database, NLP, Pandas, Numpy

- Developed a "Missing Person Detection" web application using Python, Flask, Convolution Neural Networks aiming to identify any missing person through a live video feed or by uploading an individual's picture.
- Worked with a team to design a "Sarcasm Detection" Sequential model using python language and Natural Language Processing. Computed accuracy for the sarcasm detection model was over 85%.

Software Intern - Cantilever Labs

Oct 2020 - Dec 2020

Skills: Java, Servlets, HTML, PHP, MySQL, Matlab, OpenCV

- Spearheaded the development of a "Bus Ticket Booking System" using Java, Java Servlets, JavaScript, HTML, PHP and SQL. The project includes 2 modules- Administrator and User module. Admin can add, delete, update and view bus details. Users can book, cancel reservations and view all the bus details.
- Contributed to the development of a "Drowsiness Alert System" using OpenCV, Fuzzy Logic. If the eye remains closed for more than 2-3 seconds then the person would be detected as drowsy and a loud sound alert is sent.

PROJECTS:

Stock Inventory

Jun 2024 - Jul 2024

- Developed an application on firebase using authentication, functions, firestore, next.js, python, authentication to build a stock inward and outward mechanism. Application has multiple modules and increased efficiency by 60%.

Recipe Generation from Videos

Jan 2023 - Apr 2023

- Engineered a recipe generation pipeline leveraging pretrained models to save on more about 90% of the training time. Executed parallel dense video captioning for an event proposals, reduced redundancy with cosine similarity and elevated image analysis of frames using YOLO, harnessed BLIP for image captioning, Resnet for frame-to-feature conversion. Employed ChatGPT for summarization. Evaluated performance with BERTScore, obtained good results despite absence of model training with latency -5s

Predicting performance of movie using sentiment analysis on youtube movie comments

Jan 2023 - Apr 2023

- Created a sentiment analysis model trained on youtube comments. Conducted multiple experiments to see if these youtube comments could help and enhanced the prediction rate of the success of the movie by 10%.

URL Shortener

Sep 2023 - Dec 2023

- Crafted a URL shortener system applying software engineering methodology principles using Java Spring Boot, react.js, Big Table for database and Google cloud platform for deployment to generate over 1000 URLs. Further plan is to develop customized URLs using ChatGPT and spam detection using Bloom filters to further enhance experience.

Social Media Application - TheI-Site:

Aug 2022 - Dec 2022

- Built a social media application using reactJS, MongoDB, express, node.js, and cloudinary to add images.