

ARYAN SINGH DALAL

SOFTWARE DEVELOPER

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EDUCATION

Master's | Kansas State University

M.S Computer Science
CGPA: 4.0/4.0
August 2021 - Oct 2023

Bachelor | Maharshi Dayanand University

Bachelor's in Technology
CGPA: 6.8/10.0
May 2021

SKILLS

- Python
- Computer Vision
- Object Detection
- Machine Learning
- Artificial Intelligence
- Neural Network
- Pytorch
- SQL
- DBMS
- Knowledge Graph
- Programming Language

RELEVANT COURSES

- Machine Learning Pattern Recognition
- Deep learning
- DBMS
- Algorithms
- Programming Language

WORK EXPERIENCE

Graduate Research Assistant | Kansas State University | May 2022 – Present

- Object Displacement Quantifier via Image.
- Developing a Machine Learning Model to quantify the displacement and the distance of the object of interest from the camera by using Image datasets.
- Involves Data Annotation, Neural Network training, Object detection, Background noise reduction, and Computer Vision methods.

Graduate Teaching Assistant | Kansas State University | August 2021 – May 2022

- Addressing and resolving students queries on diverse topics related to Database Management System (DBMS).
- Conducting thorough assessments of students' assignments and projects, providing constructive feedback and assigning grades.
- Evaluating students' project presentations, assessing their working demos from both user and coder perspectives.
- Utilizing expertise in MySQL and Database Management System to facilitate effective teaching and learning.
- Leveraging strong communication skills to communicate intricate DBMS concepts in an accessible manner.
- Contributing to the enhancement of the overall teaching and learning process by sharing insights and best practices.

Student Intern | The Stage | August 2020 – September 2020

- Managing and maintaining networking operations with external clients to ensure seamless communication and collaboration.
- Monitoring and troubleshooting network connectivity issues to minimize disruptions and downtime. Collaborating with cross-functional teams to address technical
- Challenges and ensure effective communication.

Student Software Intern | Tech Explica | June 2019 – August 2019

- Completed the "Meals Swipes Offline" project under Nitin Jha's guidance.
- Developed a system to store transaction information until a network connection is established.
- Enabled seamless transactions in offline mode, creating a semi-offline transaction experience.
- Improved user experience and operational efficiency in scenarios with intermittent network connectivity.

PROJECTS

Object Tracking Quantification System

- Trained neural network on custom image datasets
- Tracks the object in the frame and converts the output into real-life terms
- Project currently under NDA
- Under ongoing Patent Process
- Used Roboflow, Anaconda, Python, Excel, and MS PowerPoint.

Sign language to text model.

- Trained neural network on open source image dataset of hand signs
- Converting the detection class into text in real-time using Yolo Model
- Used Anaconda for implementation

Student Library

- Made a Terminal-based student library.
- Provides a structure for both librarians and student
- Handled data of 100,000 rows in the table
- Used Anaconda, Python, SQL, and Excel.

Immunity Checker

- Trained neural network on custom points about health.
- On the basis of the provided health information model gives the health score.
- Provides facility to further appoint a doctor for detailed examination.
- Provides methods to improve health score.
- Used Anaconda, Python, and Excel.

Meals Swipes Online

- Completed the "Meals Swipes Offline" project under Nitin Jhai's guidance
- Enabled user to carry out offline transaction with existing debit and credit cards

REFERENCES

Smith Kevin - Innovation Manager



CNH Industrial



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Pascal Hitzler - Professor



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Ajay Sharda - Professor



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