Chandan Kumar

Invalid Date

chandan@iastate.edu

CONTACT INFORMATION

• Email: chandan1002@gmail.com

LinkedIn: chandan1002GitHub: chandan1002

EDUCATION

IOWA STATE UNIVERSITY, USA

• **Degree:** Doctor of Philosophy (Ph.D.), Computer Science (Focus: Deep Learning, Computer Vision)

· Advisor: Dr. Ali Jannesari and Dr. Matthew Darr

Graduation Year: 2017-Present

IOWA STATE UNIVERSITY, USA

· Degree: Master of Science, Computer Science

Advisor: Dr. Ali JannesariGraduation Year: 2017-2022

BIT SINDRI, INDIA

• Degree: Bachelor of Technology in Computer Science (With Distinction)

· Graduation Year: 2011-2015

WORK EXPERIENCE

IOWA STATE UNIVERSITY

- · Position: Graduate Research Assistant
- · Dates: January 2023 Present
- · Description:
 - Skills Used: Python, Pytorch, bash scripts, slurm.
 - Unsupervised Learning approach to Object-Detection. Developed fully unsupervised leaning based object detection algorithm using contrastive learning.
 - · Unsupervised Image retrieval. Developed algorithm to retrieve image using unsupervised learning.
 - Scaling Unsupervised Learning algorithm to HPC(High Performance Computing).

HAGIE MANUFACTURING (JOHN DEERE)

- · Position: Data Scientist Coop
- · Dates: January 2022 January 2023
- · Description:
 - President award winner for extraordinary performance.

- Skills Used: Alteryx, Ignition SCADA, Databricks, PowerBI, Microsoft Excel, AWS, RabbitMQ, Python, OpenCV, Pytorch.
- Using tools and techniques to perform Text Mining, ML models development for predictive analysis and automation and Computer Vision models.
- Design and develop project pipeline(Data Exploration, Sampling, Feature Engineering, Model Building, Field Performance Evaluation).

IOWA STATE UNIVERSITY

- · Position: Graduate Research Assistant
- · Dates: January 2019 December 2021
- · Description:
 - Skills Used: CAN-Bus, Python, OpenCV, POE, Pytorch, ROS
 - Developed real-time driver assist system for large farm-vehicles. Involved a system of 16 cameras, edge computing and image stitching to utilize the CAN protocols and integrate the mechanism to existing system.
 - Real-time depth detection and analysis using stereo camera(s). Used stereo camera to develop algorithm that can perform real-time depth detection and calculate volume of objects from the drone

IOWA STATE UNIVERSITY

- · Position: Graduate Teaching Assistant
- · Dates: January 2017 May 2019
- · Description:
 - COMS 106 (Introduction to programming using HTML5, CSS, PHP, SQL, JQuery, JavaScript).
 Responsible for helping students understanding concepts, clearing their doubts and grading assignments.

EXL(INDUCTIS) SERVICES INDIA PVT. LTD.

- Position: Business Analyst
- · Dates: February 2016 December 2016
- · Description:
 - Awarded Rising Star Award (1 of 6 awardees out of 37,000+ employees)
 - Skills used: SAS, SQL, IBM-Netezza, DB2, Tableau, R, Python, Microsoft Excel.
 - Utilized applications like SAS to identify trends and relationships between different pieces of data, draw appropriate conclusions and translated analytical findings.
 - Created and worked on various reporting frameworks (Microsoft Excel, Tableau) that involved customer segmentation and clustering exercises for customers

SKILLS

- Languages and Tools: Python, Java, OpenCV, Pytorch, Databricks, Ignition, Alteryx, AWS, Jenkins, IoT, Git, Unix
- · Web Technologies: HTML, CSS, React, AngularJS, NodeJS.

AWARDS/GRANTS

ACCESS GRANT SUPPORTED BY NSF (CIS220069)

- Description: Develop algorithm for Unsupervised Object Detection.
- · Position: Co-Pl.
- **Grant Amount:** USD 174,000.

PROFESSIONAL SERVICE

INVITED SPEAKER

• Description: International 7-in-1 Symposium, CGC, Herning, Denmark.

REVIEWER

- Conference: ECCV 2024.Conference: ICML 2024.Conference: ICLR 2024.
- · Conference: NeurIPS 2023.
- · Journal: Journal of AI Research (JAIR).
- · Journal: River Publishers.

PROFESSIONAL MEMBERSHIPS

- IEEE
- IEEE Computer Society

ATTACHMENTS

RESUME

- **Description:** Click here to view my resume.
- embed: Resume_Chandan.pdf