



Akshaykumar Gunari



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Career Objective:

Seeking a dynamic job in a highly regarded company where I can confidently utilize my skills and flair to bring about a productive change within myself and thus aim towards a broader perspective of developing along with the company.

Educational Qualifications:

Degree	Name of the institution	University/Board	Year of passing	Percentage
Bachelor of Engineering (Computer Science And Engineering)	KLE Technological University, Hubballi.	KLE Technological University, Hubballi.	2017-2021	9.02 (CGPA)
Pre University College	Chetan PU Science Pre-University, Hubballi.	Department of Pre University Education, Karnataka	2017	90.50%
SSLC	Chetan Public School	Karnataka Secondary Education Examination Board	2015	94.40%

Skill Set:

- **Programming languages:** C, C++, Python.
- **Tools** : Git, Jupyter Notebook, Spyder, Pycharm, VS Code, Google Colab, Tensorflow, Pytorch.
- **Industry Knowledge** : Operating Systems, Linux Kernel Programming, Device Drivers, Machine learning, Deep learning, Image Processing, Computer Vision.
- Good team player and determined to gain knowledge.

Projects:

1. **Device Driver for Non-Transparent Bridge and DMA Engines:** I have worked as a Linux Kernel Engineer to bring up the Linux kernel driver for Non-Transparent Bridge and DMA Controllers.
2. **HPD Sensors Enablement:** To enable various camera-based and non-camera-based Human Presence Detection Sensors and Color Sensors to Cortex-M4 co-processor. To build an in-house library for the enablement of various sensors.
3. **Progressive Clustering:** As the Research Experience for Undergraduates, we proposed a framework to find the arbitrarily shaped clusters incremental in nature with dynamically growing datasets exhibiting the increment of the dataset not just with respect to class (Class-Incremental) but also in the distribution of each class.
4. **Augmented Data as an Auxiliary Plug-in Towards Categorization of Crowdsourced Heritage Data:** As a senior design project, our team proposed a framework for the categorization of sparse crowdsourced data.

Experience/Internship:

- **Institution Name: Juniper Networks India Private Limited**
 - **Duration:** 18th March 2024 to Present.
 - **Designation:** Software Engineer - 2.
 - Working in the Linux Platform Development Team on bringing up QFX 5K Series Switches.
- **Institution Name: AMD India Private Limited**
 - **Duration:** 26th July 2021 to 15th March 2024.
 - **Designation:** Software System Designer - 2.
 - Worked in different teams including Linux Platform Driver Development and Sensor Fusion Hub teams and released a few patches to the community, and enabled various Human Presence Detection (HPD) sensors.
- **Institution Name: Centre of Excellence for Visual Intelligence (CEVI).**
 - **Duration:** 1st March 2021 to 24th July 2021.
 - **Designation:** Research Intern.
 - Working on a DST project under the guidance of Dr. Uma Mudenagudi towards categorization of crowdsourced data which involves both 2D and 3D data processing.
- **Institution Name: Indian Institute of Technology, Delhi (IITD).**
 - **Duration:** 6th June 2019 to 10th July 2019.
 - **Designation:** Project Trainee.
 - Worked on a project - Endoscopic Tool Tracking which was a Collaborative Neuro-Engineering Platform Building for Excellence in Innovation and Translational Research (RP03571G)

Publications:

- **Progressive Clustering: An Unsupervised Approach Towards Continual Knowledge Acquisition of Incremental Data** - ICPRAI 2022 - 3rd International Conference on Pattern Recognition and Artificial Intelligence. (Conference to be held in Paris, June 01).
- **ABD-Net: Attention Based Decomposition Network for 3D Point Cloud Decomposition** - The first Workshop on Structural and Compositional Learning on 3D Data - October 2021.
- **Deep Visual Attention-Based Transfer Clustering** - (VisionNet'20).
- **Augmented Data as an Auxiliary Plug-in Towards Categorization of Crowdsourced Heritage Data** - Workshop on Digital Heritage (WDH) 2021: ICVGIP'21.

Patent:

- **System for Attention-Based Decomposition of 3D Point Clouds:** Filed the patent - 2022.

Co-curricular and extra-curricular activities:

- Conducted a workshop on the Basics of **Image processing, Machine Learning**, and Volunteered in various cultural and technical events conducted in college.
- Competed in a Kaggle Competition titled “**Categorical Feature Encoding Challenge**” and ranked 52/1342 as dated December 9, 2019.
- Attended a workshop on **3D Computer Vision** at IIIT-Hyderabad.
- Participated in **TCS Tech-bytes, Smart India Hackathon**.

Awards and Recognition:

- Spotlight Award at AMD India Private Limited - December 2021.
- Lab Warrior Spotlight Award at AMD India Private Limited - Jan 2022.

Certifications:

- **Machine Learning** Course from Stanford University on Coursera.
- Problem Solving In C, **NPTEL Certification**.
- Data Structures And Algorithms in Python, **NPTEL Certification**.

Interests/Hobbies:

Playing Volleyball, Listening to Music, Traveling, and Surfing.

Personal Details:

Father's Name : Shrinivas Gunari.

Mother's Name : Akshata Gunari.

Date of Birth : 18/08/1999.

Languages Known : English, Kannada, Hindi.

Permanent Address : H. No 137, Akshay Colony, 1st Phase, Gokul Road, Hubli, 580-030.

Declaration: I hereby declare that the above-provided information is true to the best of my knowledge.



Date: May 1, 2024

(Akshaykumar Gunari)