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 aiming 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
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, Machine learning, Deep learning, Image Processing, Computer Vision.
- Good team player and determined to gain knowledge.

Projects:

1. **HPD Sensors Enablement:** To enable various camera based and non-camera based **H**uman **P**resence **D**etection Sensors and Color Sensors to Cortex-M4 co-processor. Building an in-house library for enablement of various sensors.
2. **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.
3. **Augmented Data as an Auxiliary Plug-in Towards Categorization of Crowdsourced Heritage Data:** As a senior design project, our team proposed a framework for categorization of sparse crowdsourced data.

Experience/Internship:

- **Institution Name: <u>AMD India Private Limited</u>**
  - o **Duration:** 26st July 2021 to Present.
  - o **Designation:** Software System Designer - 1.
  - o 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: <u>Centre of Excellence for Visual Intelligence (CEVI)</u>.**
  - o **Duration:** 1st March 2021 to 24th July 2021 .
  - o **Designation:** Research Intern.
  - o 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: <u>Indian Institute of Technology, Delhi (IITD)</u>.**
  - o **Duration:** 6th June 2019 to 10th July 2019.
  - o **Designation:** Project Trainee.
  - o Worked on a project Endoscopic Tool Tracking which was a Collaborative Neuro-Engineering Platform Building for Excellence in Innovation and Translational Research (RP03571G)

<u>Publications:</u>

- **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.

<u>Patent:</u>

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

<u>Co-curricular and extra-curricular activities</u>:

- 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**.

<u>Award and Recognition:</u>

- <u>Spotlight Award</u> at AMD India Private Limited - December 2021.
- <u>Lab Warrior Spotlight Award</u> at AMD India Private Limited - Jan 2022.

<u>Certifications:</u>

- **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: November 18, 2022   (Akshaykumar Gunari)