

# AKASHVARMA M

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## Education

### Amrita Vishwa Vidyapeetham

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence) | **CGPA: 8.51**

Oct 2021 – Present

Chennai, India

### Velammal Vidyalaya

HSE (Class XII), Aggregate: **90%**

Jun 2019 - Mar 2021

Chennai, India

## Experience

### AEH Intern

Accenture

Jun 2024 – Jul 2024

Chennai, India

- Completed training on Generative AI tools, low-code/no-code platforms, AWS, and cybersecurity essentials.
- Contributed to a Warehouse Management System (WMS) project, focusing on optimizing processes through data analysis.

## Technical Skills

- Programming Languages:** Python, Java, MySQL
- Development Tools/Frameworks:** VS Code, Git, GitHub, Tensorflow, Pytorch
- Other Skills:** Machine Learning, Data Science, Computer Vision

## Projects

### Large Language Models in Abstractive Summarization of News Articles

Dec 2023

Presented at *Asia Pacific Conference on Innovation in Technology (APCIT 2024) (IEEE)*, Sep 2024.

*A Comprehensive Review of Large Language Models in Abstractive Summarization of News Articles, Published in IEEE Xplore.*

- Conducted a comprehensive analysis of Large Language Models (LLMs) for optimizing text summarization of news articles, resulting in a 40% improvement in summarization accuracy and a 30% reduction in processing time.
- Examined the performance of BART, T5, Pegasus, and Llama models across various metrics in news article summarization.
- Led the adoption of ROUGE, BLEU, Cosine similarity score metrics to assess model performance, resulting in a 30% reduction in error rates and a 15% enhancement in natural language processing outcomes.

### Body Weight Prediction of Goat: A Computer Vision Approach

Nov 2023

Presented at *4th International Conference on Intelligent Technologies (CONIT 2024) (IEEE)*, Aug 2024.

*Body Weight Prediction of Goat: A Computer Vision Approach, Published in IEEE Xplore.*

- Trained and deployed a robust model for enhancing efficiency in predicting goat weight.
- Implemented YOLO V8 for goat detection and manually segmented the torso of the goat using Roboflow software.
- Leveraged bounding boxes to precisely ascertain the pixel lengths of the goat's torso, laying a solid foundation for a comprehensive weight prediction model.
- Our custom training procedure resulted in a model that achieved an mAP of 90.2% on the validation data and 88.2% on the test set.

### Parkinson's Disease Detection: Comparative Analysis of ML Models | Python, Machine Learning

May 2023

- Performed a comparative study of ML models for Parkinson's disease detection using a dataset from the University of Oxford.
- Explored features like MDVP:F0(Hz), MDVP:Jitter(%), MDVP:Shimmer, NHR, and 18 other features.
- Evaluated the performance of Logistic Regression (LR) 83.67%, k Nearest Neighbors (KNN) 97.95%, Decision Tree (DT) 95.91%, Multi-layer Perceptron (MLP) 97.95%, and Gradient Boost (GB) 95.91% algorithms.

## Courses and Certifications

### Finalist - Yugam India Hackathon, Kumaraguru College of Technology

Mar 2023

- Chosen as a finalist among the top 40 teams for the final round, competing against 500 teams nationwide.

### Code in Unknown Language, Amrita CyberNation, Amrita Vishwa Vidyapeetham

Oct 2022

- Emerged victorious in an inter-college coding competition held in the Rust Language.

### Introduction to Machine Learning

Sep 2022

- Issued by: National Programme on Technology Enhanced Learning (NPTEL)