**Amit Kumar**

Portfolio:NAEmail: <amit.ceg.official@gmail.com>

GitHub<github.com/geekforai> Mobile: +91 9720518149

**Education**

**Anna University Chennai,India**

Master of Computer Application**;CGPA:**7.4 Sept 2021 - May 2023

***Courses:****Data Science and Engineering Tools, Advance Data Science Engineering,Image Processioning,Data Structure*

* **M. J. P. Rohilkhand University Bareilly UP,India**

Master of Computer Application**;CGPA:**7.4 Aug 2017 - May 2020

***Courses:*** *Probability & Statistics, Data Structures and Algorithms, Advance Database Systems, Python,ML,JAVA*

**Skills**

* **Languages:** C, Java, JavaScript,Python.
* **Frameworks:** , Flask, Django, Numpy, Pandas, Scikit-Learn,NLTK.
* **Databases:** MySQL,MongoDB
* **Deep Learning:** CNNs, RNNs, LSTM, Keras, Tensorflow.
* **Machine Learning:** Regression, Classification, Clustering, PCA, Feature extraction, Grid Search, Bayesian Optimization.
* **Cloud Compute:** AWS - EC2, S3, Sagemaker, Lambda.

**Experience**

* **ADYPU Pune (Inurture Education Solutions)** Pune,India

## **Faculty** July 2023 - Present (Serving Notice period)

* + Conducted comprehensive lectures and workshops at ADYPU on Artificial Intelligence (AI) and Machine Learning (AIML), as well as Linux.
  + *Facilitated practical learning experiences, fostering in-depth understanding and application of AI, machine learning, and Linux concepts among students.*
  + Developed and delivered course materials, ensuring relevance, depth, and engagement in the fields of AI, machine learning, and Linux
  + Mentored and guided students through hands-on projects and assignments related to AI, machine learning, and Linux, cultivating critical thinking and problem-solving skills.
* **Semiconductor Research corporation(Collaboration With Anna University)** Chennai, India

## **Intern** Nov 2022 - june 2023

* + Played a pivotal role in the SRC-funded project focused on revolutionizing the **analog and mixed- signal circuit** verification process.
  + .Collaborated closely with a multidisciplinary team to develop cutting-edge methodologies incorporating machine learning techniques.
  + *Contributed to the enhancement of validation and verification steps, ensuring robustness and reliability of AMS integrated circuits.*
  + *Involved in the development of the ANU-AMS Verification Package, aimed at making the verification process more efficient, accurate, and less time- consuming.*
  + *Worked on* ***MLP*** *and* ***Random-Forest*** *to analyze and validate AMS circuits, resulting in improved verification accuracy.*

**Projects**

* **Quiz Generator:** Innovated a scalable and user-friendly Quiz Generator employing **Natural Language Processing (NLP) techniques**. This tool empowers educators by automatically generating quizzes from textual paragraphs, effectively saving time and promoting interactive learning experiences. By inputting text paragraphs, the system dynamically creates diverse and contextually relevant quiz questions, enhancing engagement and facilitating personalized assessments.
* **[Detection of Parkinson's disease](https://www.sciencedirect.com/science/article/pii/S1877050923000078" \t "https://search1.me/_self):**  Engineered an innovative Parkinson's disease detection system that seamlessly integrates image and audio analysis techniques using **OpenCV** for image processing, **Librosa** for audio feature extraction, and **Artificial Neural Networks (ANN)**. This system proficiently assesses images and audio data, utilizing advanced algorithms to discern potential indicators of Parkinson's disease with remarkable accuracy. By harnessing the capabilities of **OpenCV**, **Librosa**, and ANN, this solution pioneers a holistic approach to early detection and continuous monitoring of Parkinson's disease. The amalgamation of image and audio processing methodologies exemplifies a commitment to leveraging technology for impactful healthcare advancements, marking a dedication to interdisciplinary innovation at the nexus of machine learning, medical diagnostics