

AKANKSHAYADAV

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M.Sc - Mathematics and Computing

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Education

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| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
| M.Sc Mathematics & Computing | Indian Institute of Technology, Guwahati | 5.5 (Current) | 2022-2024 |
| B.Sc Mathematics | Allahabad State University | 65% | 2018-2021 |
| Higher Secondary | CBSE Board | 86.6% | 2017 |
| Secondary | CBSE Board | 92% | 2015 |

Experience

*•* NullClass Technology *July 2023 - Dec 2023*

*Intern - Machine Learning Developer* Remote

* Developed a dynamic real-time eye state detection system, providing swift insights into user engagement.
* Enhanced emotion detection for a richer user experience through advanced analysis.
* Led the creation of an innovative drowsiness detection system, prioritizing user safety.
* Designed an efficient real-time wrinkle detection algorithm, contributing to cutting-edge image processing.

# Projects

AI Image Classifier *June 2023 - July 2023*

*By coding club IITG in Even Semester Programme.* [Website](https://real-and-ai-generated-image-classifiergit-cpagcspso9yxjrzfhj2r.streamlit.app/) *|* [GitHub](https://github.com/ambitionyd/REAL-and-AI-generated-image-classifier)

* Developed an advanced real and AI image classifier.
* Constructed a robust sequential model with layered architecture.
* Incorporated VGG16 pre-trained model.
* Implemented dropout layers for regularization.

Guwatidbit-Chatbot *Aug 2023*

*Self* [Website](https://tidbit.streamlit.app/) *|* [GitHub](https://github.com/ambitionyd/Guwatidbit-Chatbot)

* Built chatbot using NLP tools (Punkt, Wordnet, omw-1.4)
* Leveraged json data, sequential model, dense activation for efficiency.
* Optimized using dropout; achieved robust performance in natural language understanding.
* Incorporated Wordnet Lemmatizer for accurate word transformation and analysis.

Voice Recognition System (ROS) *Jan 2024-Current*

*Course Project | Under: Prof. Sagarmoy Dutta, IIT Guwahati* [GitHub](https://github.com/ambitionyd/Voice-Recognition-System)

* Integrated voice recognition seamlessly into ROS for enhanced robot interaction.
* Optimized audio processing using soundfile, sounddevice, and librosa libraries.
* User-Centric GUI: Crafted an intuitive graphical interface, simplifying audio recording and classification for a more user-friendly experience.
* Deep Learning Precision: Integrated Tensorflow for precise and effective deep learning-based audio classification, enhancing the system’s responsiveness to spoken commands.

# Technical Skills

* Programming: C,C++, Python,Matlab.
* Python Tools : Numpy, Pandas, Matplotlib, Seaborn,Scikit-learn, Keras, Tensorflow
* Web technologies : HTML, CSS, Flask, streamlit.
* Database management : MySql.

# Key courses taken

* Data Science:Summer Analytics 2023- a primer course on Data Science and Machine Learning, Career Essentials in Generative AI by Microsoft and LinkedIn, Deep learning, Data Structure and Algorithms, Theory of Computation
* Mathematics:Probability Theory,Linear Algebra,Mathematical Finance, Optimization Techniques

# Achievements & extra curricular

*•* IIT JAM:Achieved AIR 165 among 13000+ candidates in IIT JAM (Mathematics)

*•*Bharat Scoutes Guides (2016) :Rajya Puraskar in Bharat Scoutes and Guides India.

*•*Participated in 5th Sameen Singh Internation FIDE Rating Chess Tournament 2018

*•*Two times national Chess player at the school level through Navodaya Vidyalaya Samiti