AKANKSHAYADAV

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# Career Objective

Seeking a DATA SCIENTIST/DATA ANALYST role to apply my expertise of Data Mining, Statistical Analysis, Machine Learning, Deep Learning, and NLP, driving impactful insights and solutions.

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| --- | --- |
| IIT Guwahati  M.Sc - Mathematics and Computing  Experience | *July 26, 2022 - May 10, 2024* |
| NullClass | *July 2023 - Dec 2023* |
| Intern - Machine Learning Developer | Remote |

# Education

* This internship was fully focused about building Emotion Detection module, which detects the emotions from given images, where I used my knowledge of Computer Vision.
* Here some other team members were engaged for extracting dataset and integrating across diverse digital platform tasks whereas my key role was to train the dataset and pre-process it.
* Led comprehensive testing and validation procedures to ensure the drowsiness detection system’s robustness and reliability. Validated its effectiveness across diverse demographic groups and real-world usage scenarios.

# Projects

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| --- | --- |
| 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) |

* I took the lead in creating a highly advanced Image Classification System,Integrating the latest algorithms and methodologies available.Our aim was to accurately categorize and analyze images, striving for optimal performance and utmost precision in our tasks.
* Integrating the VGG16 pre-trained model has significantly strengthened our classifier, making it exceptionally sharp and accurate in recognizing images.
* Added Dropout layers to the classifier to make sure it can generalize well, avoiding overfitting and ensuring steady performance across different datasets and situations

ChatBot *Aug 2023*

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

* Developed chatbot utilizing NLP tools including Punkt, Wordnet, and omw-1.4 for enhanced functionality.
* Utilized JSON data, Sequential Model, and Dense Activation to enhance efficiency and effectiveness.
* Achieved robust performance in natural language understanding through optimization using dropout techniques.
* Utilized WordNet Lemmatizer for precise word transformation and comprehensive analysis in text processing tasks.

Voice Assistant *Jan 2024-Apr 2024*

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

* Using SpeechRecognition and gTTS libraries for voice-controlled applications; they enhance user interaction.
* Improving interaction efficiency, speech recognition boosts command-response systems’ functionality.
* Utilizing PyAutoGUI for tasks such as screenshots and web browsing facilitates automation.

# Technical Skills

Python Tools:Numpy, Pandas, Matplotlib, Seaborn, Scikitlearn, Keras, Tensorflow, Plotly, NLTK.

Web technologies HTML, CSS, Flask, Streamlit.

Database management MySql.

Software ToolsWord, Excel.

# 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.

Mathematics: Advance Probability, Probability Theory, Statistical Inference, Linear Algebra,

Optimization Techniques, Discrete Mathematics, Numerical Analysis, Differential Equations

# 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.

Sports: Participated in 5th Sameen Singh Internation FIDE Rating Chess Tournament 2018. Also, Two times National Chess player at the school level through Navodaya Vidyalaya Samiti