Sandeep Balabantaray

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EDUCATION

VIT Bhopal University	**Bachelor's in Computer Science and Engineering (B.Tech)**	CGPA : 8.46	*2022 – to be 2026*

TECHNICAL SKILLS

Programming Languages : Python, C++, Java, MySQL, MATLAB, HTML, CSS, Javascript, Latex
Machine Learning :Scikit-Learn, Data Visualization, Computer Vision, Sentiment Analysis
Deep Learning Frameworks : TensorFlow, Keras, PyTorch
Libraries & Tools : NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Git, CUDA
Patterns & Practices : Object Oriented Programming, Data Structures and algorithm, Database and Management System

PROJECTS: *https://github.com/AxilBlaze*

Medipred *|https://www.youtube.com/watch?v=QjwWLSOTGDc | HTML, CSS, Javascript, Machine Learning, Flask*   *Fall 2023*

* Retrieved Database from online sources, then meticulously cleaned and preprocessed them for optimal machine learning model performance.
* Developed and deployed sophisticated machine learning models for the "MediPred" platform, achieving precise predictions for heart disease, COVID-19, cancer, diabetes, and vector-borne illnesses with more than 90% accuracy in each dataset.

Course Finder *|https://coursecom.onrender.com/ | HTML, CSS, Javascript, Python, Machine Learning, Flask, NLTK,*   *Spring 2024*

* Developed a course-finding website utilizing Singular Value Decomposition (SVD) to analyze user preferences and course attributes
* This platform predicts suitable courses for each individual, providing a personalized and efficient learning experience.
* Developed a course rating system using NLTK for sentiment analysis on user comments, improving course evaluation accuracy. Implemented natural language processing and sentiment modeling techniques for insightful feedback analysis.

Sign Detection *| Tensorflow, Keras, OpenCV*   *Spring 2023*

* Developed a sign language detection system utilizing OpenCV and deep learning techniques.
* Implemented real-time video processing for dynamic hand gesture detection.

RESEARCH PAPERS PUBLISHED

-EEG Characteristics with Machine Learning Classifiers for Accurate Detection of Eye Blink Mistakes
-Machine Learning Advancements in Polymer Material Creation

EXPERIENCE

Student in Research *| VIT Bhopal University*   *December 2022 –Present*

* Compiled, cleaned, and manipulated data, modeled predictions with feature selection algorithms, and authored a research paper.
* Developed ML algorithms to analyze and visualize vast historical data for predictions, managing infrastructure and data pipelines for production. .
* Selected datasets, used data modeling strategies, and implemented best practices to enhance ML infrastructure.
* Expertly handled large datasets, including categorical, numerical, and image data, leveraging advanced techniques for data analysis and processing

Joint Secretary *| Software development Club(VIT Bhopal University)*   *December 2023 –Present*

* Coordinated and organized club meetings, workshops, and coding events.
* Collaborated with industry professionals to arrange guest lectures and mentorship sessions, enhancing members' learning experiences.
* Maintained records of club activities and member participation, contributing to strategic planning.
* Contributed to the event management team, collaborating with Google Crowdsource to plan and execute successful event on Generative AI.

ACHIEVEMENTS

Smart India Hackathon	*Qualified all three Internal Rounds among all 200+ teams that participated*	*2023*
NPTEL Swayam: Cloud Computing	*Successfully completed in Elite Category among the 23872 applicants*	*2024*
RTASCE	*Successfully presented research work in international conference*	*2023*
Coursera	*Google Certification in Bits and Bytes of Computer Networking*	*2023*
Coursera	*IBM AI Engineering*	*ongoing*