SURA SURA ANJALI

Roll No.:220106079
B.Tech - Bioscience and Bio Engineering
Indian Institute Of Technology, Guwahati

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	6.24(Current)	2022-Present
Senior Secondary	Andhra Pradesh Residential Junior College	96.4%	2022
Secondary	CBSE Board	78.6%	2020

Projects

- **Graph Neural Networks for Brain Age & Music Data Analysis** *Jul 2025 - Ongoing*
  BTech Project under Prof.Cota Navin Gupta ,Bioscience and Bioengineering dept,IIT Guwahati
  – Designing **Graph Neural Network** models for brain age prediction using neuroimaging data and sequential analysis of music datasets.
  – Applying graph-based deep learning to model brain connectivity and sequential patterns in music.
  – Implementementing experiments in **PyTorch** Geometric to evaluate brain age prediction accuracy .

- **Voice Assistant** *Aug 2025*
  Personal Project Github
  – Developed an **AI-** powered voice assistant equipped with speech recognition capabilities.
  – Leveraged an **NLP** natural processing language model Enhanced by Microsoft to enable natural language understanding capabilities.
  – Implemented integration with **Google API** for email authentication..

- **Monitoring Crop Health using Computer Vision** *Jun 2025*
  Aeromodelling Club ,IIT Guwahati Github
  – Built a **computer vision model** for crop health monitoring and achieved **97%** training accuracy.
  – Engineered a deep learning pipeline using **Python, TensorFlow, and OpenCV,** achieved **94%** validation accuracy on a **1000**+ crop image dataset.
  – Applied **CNN-based image classification** for early detection of Leaf diseases.

- **Loan Default Prediction** *Aug 2025*
  Personal Project Github
  – Improved a loan default prediction model using **Logistic Regression, Decision Tree, and Random Forest**.
  – Performed data preprocessing, feature engineering, and model evaluation to optimize predictive accuracy.
  – Attained **98%** training accuracy with **Random Forest** and identified key features predicting high-risk loans.
  – Executed using Python, Pandas, NumPy, scikit-learn, Matplotlib, and Seaborn.

Technical Skills

- **Programming**: C/C++, Python, Java*
- **Python Libraries**: Numpy,Pandas,Matplotlib,Sklearn,Seaborn,Pytorch,OpenCV,TensorFlow,Scipy
- **Database Management Systems**: SQL,MySQL*
- **Operating Systems**: Windows, Linux*

Key courses taken

- **Biotechnology**: Biological Data Analysis, Computational Biology, Bioinformatics, Neuroscience
- **Computer Science** : Introduction to Computing,Computing Laborator.
- **Data science**: Hardware-Aware Deep Learning

Achievements

- **Kaggle Hackathon - ML.ai Club**,Secured 1st and 3rd Highest Score (Public Score: 1.000, Private Score: 0.991) *2025*
- **HackerRank**,Awarded Gold Badge in Data Structures and Algorithms *2025*
- **JEE Advanced**,Achieved Category Rank 1428 *2022*
- **Intermediate College Exam**,Secured 2nd Rank in college *2022*