



# SANDIP DAS

As an aspiring engineer, I am driven by my curiosity for solving complex problems and my enthusiasm for practical learning. I am actively seeking a position that allows me to apply my technical expertise, analytical mindset, and problem-solving abilities to contribute to the success of the organization.

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## EDUCATION

### Bachelor of Technology

#### JIS UNIVERSITY

Computer Science & Engineering

CGPA – 8 July, 2019 – June, 2023

## PROJECTS

### RESEARCH PROJECT

#### Detection of ADHD and Explaining the Factors

- ❖ We used three different machine learning model to predicted ADHD among them random forest provide best accuracy that is 97% and also we try to find insights of the model to know why an instance of data was classified as such.

#### Explainable AI for Predictive Analytics on Employee Attrition

- ❖ To analyze the possible factors behind employees leaving the company. We focused on in depth analysis of feature using LIME and SHAP in order to explain the feature and their importance level in details using a 15K HR dataset.

### ACADEMIC PROJECT

#### Imbalanced Healthcare Data Handling

- ❖ A basic solution to a class imbalanced healthcare data used machine learning. We balanced the class using SMOTE technique and then apply machine learning algorithm and get an accuracy of 96%.

#### Online doctor appointment system

- ❖ Patients can book doctor's appointment whenever and wherever they wants by logging into our website. To construct the web application I used HTML, CSS, JavaScript, php and MySQL.  
➤ <https://stethoscope.systems/>

#### Handling Imbalanced Heart Disease Data and explaining the factors

- ❖ Imbalanced medical datasets hinder accurate predictions for heart disease, risking people's lives, but using Synthetic Minority Oversampling Technique (SMOTE) we balanced the class and then train five different machine learning model among them XGBoost provide better result i.e. 97% also apply eXplainable AI (XAI) such as LIME and SHAP to provide better visualization of predictions.

## SKILLS

Java Python C PHP JavaScript  
Machine Learning HTML CSS SQL  
Data Analytics GitHub Teamwork  
Time-Management Problem-Solving

## PUBLICATION

- ✓ Explainable AI for Predictive Analytics on Employee Attrition - Published  
*International Conference on Soft Computing and its Engineering Applications (CCIS, vol-1788. Springer, Cham.)*  
DOI - [https://doi.org/10.1007/978-3-031-27609-5\\_12](https://doi.org/10.1007/978-3-031-27609-5_12)
- ✓ Detection of ADHD and explaining the factors  
- \*Accepted for publication  
*International Conference on Data Science and Communication (ICTDsC-2023)*

## EXPERIENCE

- ❖ **Product and Engineering Intern | HighRadius**  
January, 2022 – April, 2022  
Built an AI Enabled Fintech B2B Cloud Application – Machine Learning, NodeJS, MySQL, HTML, CSS.

## CERTIFICATION

- ❑ *Deep Learning with TensorFlow*  
Cognitiveclass.ai | IBM Developer Skills Network
- ❑ *Data Analytics and Visualization Virtual Experience*  
Forage | Accenture
- ❑ *TCS iON Career Edge*  
TCS - TCS iON
- ❑ *Machine Learning with Python*  
Cognitiveclass.ai | IBM Developer Skills Network
- ❑ *Software Product Management*  
Coursera | University Of ALBERTA

## LANGUAGE

➤ English ➤ Bengali ➤ Hindi