# Jimmy Brahma |B. Tech Computer Science and Engineering

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## EDUCATION

- **Central Institute of Technology Kokrajhar** (*Aug 2020 – Jul 2024*)
  - B. Tech in Computer Science and Engineering, CGPA: 7.94/10 (upto 6th semester)

## EXPERIENCE

- **Machine Learning Intern at NIELIT, Central Institute of Technology Kokrajhar** (*Jun 2023 – Jul 2023*)
  - Engineered a Mushroom Classification system using a Custom CNN model to distinguish between **edible** and **non-edible mushrooms**
  - Attained an impressive **91% accuracy** with our innovative model
  - Successfully deployed the model on the web using **Flask**

## PROJECTS

- **Real Time Emotion Detection of Students in Online Classroom** (*Jul 2023 – ongoing*)
  - Innovated a video conferencing web application utilizing **webRTC** technology
  - Established **REST-API** and **web application** using **Django**
  - Crafted and trained an emotion detection model via **Custom CNN**
  - Our model has a **25.41% reduction in RMSE for Valance** and a **42.93% reduction for Arousal** compared to the **Affectnet** baseline.
  - Concurrently researching the relationship of emotions with Valance and Arousal Dimensions
- **Valance and Arousal Detection of images** (*Jul 2023 – Nov 2023*)
  - Developed Machine Learning Model with **Custom CNN** using **Affectnet Dataset**
  - Detected **Valance** and **Arousal** values from images
  - Created **web application** using **Flask**
- **Data Science and Autism Research** (*Jan 2023 – Jun 2023*)
  - Engineered and implemented machine learning models to predict **Autism Spectrum Disorder** (ASD) using the Q-CHAT questionnaire with **Image Classification**
  - Achieved faster detection of ASD among children and infants, securing an **88% accuracy**
  - Collaborated with a team to collect and curate a large dataset of ASD-related images for analysis and research purposes
- **Automatic Assessment of Student Assignment** (*Jan 2023 – Jun 2023*)
  - Optimized time for teachers in grading and evaluating descriptive assignments
  - Implemented **BERT** (Bidirectional Encoder Representations from Transformers) to generate Word Embeddings from the answers
  - Established a **Deep Learning Model** using a **Feed Forward Neural Network** to predict the marks

## TECHNICAL SKILLS

- Programming languages: C, C++, Python
- Web technologies: HTML, CSS, JavaScript
- Other skill: Django, Flask, GIT, GIT hub, Visual Studio Code
- Operating system: Windows, Ubuntu
- Database Management: MySQL

## CERTIFICATIONS

- **IBM Introduction to Deep Learning & Neural Networks with Keras** Link
- **IBM Machine Learning with Python** Link
- **Microsoft learn**
  - Have a hands-on experience in **Azure Development**, worked on Azure web application, App services, Azure storage, Virtual machines, Fabric controller, Azure AD, Azure search, and notification hub.
  - Awarded 200 Badges and 46 Trophies on Microsoft Learn Platform Link
- **Google cloud labs challenge**
  - Successfully completed **Quicklabs** learn to earn Google cloud challenge
  - Awarded with a badge and gifts from google cloud for completing a Cloud challenge Link