






Shubhadeep Saha

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EDUCATION

University Institute Of Technology, The University Of Burdwan

June 2026

B.E in Computer Science

Current CGPA: 8.3

U.P. Public School (Higher Secondary Education)

April 2021

XII SCIENCE, PCM with Computer Science

Percentage: 84.20

SKILLS

Languages: C, Java, Python, HTML, MySQL

Soft Skills: Leadership, Teamwork, Public Speaking, Problem Solving, Content Writing

Frameworks and Libraries: NumPy, Pandas, Scikit-learn, Tensorflow, Matplotlib, Seaborn, Keras


Tools: Git/GitHub, VS Code, Jupyter Notebook, Google Colab, Streamlit

PROJECTS


Digit Classification using CNN | *Python, TensorFlow, Keras, OpenCV, NumPy, Google Colab*

[Link] May 2024

- Engineered and fine-tuned a **Convolutional Neural Network (CNN)** from scratch to accurately classify handwritten digits using the **MNIST dataset**.
- Utilized **TensorFlow and Keras** for model architecture, achieving **98.7% validation accuracy** with minimal overfitting through dropout regularization and batch normalization.
- Optimized hyper parameters (learning rate, batch size, filters) through multiple experiments, boosted training efficiency and accelerated **model convergence by 30% compared to baseline**.

Speech Emotion-Based Email Assistant | *Librosa, TensorFlow, Keras, Streamlit, SpeechRecognition* [Link] January 2025

- Trained a deep learning model using **MFCC features** and **CNN+LSTM hybrid architecture**, achieving **91.3% test accuracy** across 7 emotion classes.
- Integrated **Streamlit** to deploy an interactive UI for audio input capture module, emotion detection, and email preview delivering a seamless user interface experience.
- Minimized inference time for emotion detection by **35%** using optimized MFCC extraction and model pruning techniques, enabling **real-time email composition**.

News Credibility Test | *Python, Scikit-learn, Pandas, NumPy, NLTK, TF-IDF, Matplotlib, Google Colab* [Link] April 2025

- Developed a machine learning pipeline to classify news headlines/articles as credible or deceptive using **TF-IDF vectorization and Logistic Regression**.
- Achieved **96.2% accuracy** on validation data; reduced false positives by tuning class weights and optimizing thresholds.

POSITION OF RESPONSIBILITY

The CodeBird, UIT BU | *Executive Member AI/ML Team*

Aug. 2023 – Sept. 2024

- Led the AI/ML vertical of Team Codebird, mentoring juniors and collaborating with seniors on industry-inspired AI projects.

The CodeBird, UIT BU | *Tech Leader AI/ML Team*

Sept. 2024 – July. 2025

- Led roadmap planning for future AI initiatives, including integration of LLM-based tools and security-focused ML applications. launched structured **peer-learning initiatives**, boosting junior member productivity and cross-team ML fluency.

ACHIEVEMENTS

- Ranked 3rd in **CodeWiz Hackathon**.
- Recipient of Prime Minister's Scholarship under National Defence Fund.