# DEVANSHU SINGH

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## Education

**Indian Institute of Information Technology Bhagalpur**    **Aug 2023 – July 2027**
*Bachelor of Technology in Mechatronics and Automation Engineering*    *Bhagalpur, Bihar*
**Grade:** *8.08 (latest), 7.99 (overall)*

## Skills

**Languages:** C++, Python, JavaScript, CSS, HTML
**Tools & Frameworks:** Jupyter, Git, Github, Tesorflow, Keras
**CS Fundamentals:** Data structures, Algorithms, OOPs

## Experience

**Unnati (Present)**    **Feb 2024 – Mar 2025**
*Finance Head — Curriculum Designer*    *Bhagalpur, Bihar*

- Spearheaded budget development and cash flow management, ensuring optimal resource allocation for all organizational programs and departments.
- Established relationships with donors, increasing financial support for initiatives.
- Implemented financial tracking and reporting mechanisms to ensure transparency and accountability.

**IIIT Bhagalpur (Present)**    **Sep 2024 – Mar 2025**
*PYC mentor — Coding incharge*    *Bhagalpur, Bihar*

- Guided students in competitive coding, providing mentorship to enhance their problem-solving skills.
- Addressed coding-related doubts, ensuring a solid understanding of key concepts and techniques.

## Projects

**TB detection and Infection Visualization** | *Keras, CNN, Segmentation, Grad-CAM* | ⬡    **Mar 2025 - Mar 2025**

- Implemented a U-Net segmentation model to extract lung regions from chest X-rays image, enhancing classification focus and accuracy.
- Developed a CNN-based classification model with a custom data generator for efficient pre-processing, augmentation, and batch-wise loading, utilizing pretrained models like DenseNet for improved TB detection.
- Achieved a validation dice-coefficient of 96.27% for the segmentation model and a validation accuracy of 98.21% for the classification model.

**Comment Toxicity Predictor** | *Tensorflow, Keras, NLP, BiLSTM* | ⬡    **Mar 2025 - Mar 2025**

- Developed a comment toxicity predictor model using BiLSTM and Glove embedding to measure toxicity using 6 different classes and achieved 99.42% validation accuracy.
- Utilized Python, TensorFlow/Keras to develop a bidirectional LSTM based deep learning model.

## Achievements

- Won internal **SIH hackathon**: Led team to top 5 out of 40 teams, built a platform for college alumni association.
- Successfully completed the **Machine Learning Specialization** authorized by Stanford University and DeepLearning.AI and instructed by Andrew Ng. 🌐
- Successfully completed the **Exploratory Data Analysis for Machine Learning** course with **honors** authorized by IBM. 🌐

## Extracurricular

- **Unnati Welfare Society:** Part of core team of the NGO which provides education to underprivileged children of Bhagalpur.
- **Sports:** Actively participate in Badminton and other sports.