

# UTKARSH DIXIT

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## Profile

Ambitious and focused. Passionate about AI-ML with comprehensive understanding of fundamental concepts of AI-ML actively engaged in projects and coursework that involve data analysis, algorithm development, and pattern recognition. Excellent at collaborating with multidisciplinary teams and can thrive in dynamic and fast-paced environments.

## Education

<b>Master of Technology/ M-Tech : CSE</b> (SGPA:9.38 )	<b>May 2025</b>
School of Computer Science and Engineering, Bennett University, Greater Noida, India	
<b>Bachelor of Technology / B-Tech : CSE</b> (CGPA: 6.9)	<b>May 2023</b>
School of Computer Science and Engineering, GLA University, Mathura, India	
<b>Diploma in Computer science Engineering</b> (CGPA: 7.4)	<b>May 2020</b>
School of Computer Science and Engineering, GLA University, Mathura, India	

## Projects

### English to Hindi Language Translation

- Developed a sequence-to-sequence model for English to Hindi language translation using BART and MBART, achieving an accuracy of 97.67%.
- Built an encoder-decoder model with LSTM layers for the same task, achieving an accuracy of 98.60% on a dataset containing 127,000 rows.

### Tweet's Sentiment Analysis

- Implemented sentiment analysis where dataset contains around 32k tweet's using BERT with 99.64% accuracy.
- Conducted comparative analysis of transformers: LSTM, Bi-LSTM, XLNET, RoBERTa, ALBERT and DistilBERT.

### Flower Classification

- Conducted flower classification involving three flower types, performing five tasks:
  - Classified using a feedforward neural network.
  - Classified using a custom CNN.
  - Used ResNet with pretrained weights for classification.
  - Added noise to images and developed a denoising model.
  - Implemented a Generative Adversarial Network (GAN) model for the task

### Advanced Breast Cancer Detection

- Developed an advanced breast cancer prediction model achieving 97% accuracy, leveraging SVM algorithm along with exploratory data analysis.

### Face Recognition and Emotion Detection System

- Developed an interface for detecting the emotional state of a person using image analysis powered by Machine Learning and Deep Learning models.

### Deepfake Detection System

- Developed an interface for detecting the fabrication in an image or video of any individual using image and video analysis powered by Deep Learning techniques : Transfer learning, Res-NET, LSTM.

### Dynamic website Deployment on AWS

- Built a Web-App for Campus recruitment process and its continuous deployment on AWS .

## Certifications

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|--------------------------------------------------------------------------|----------|
| • Certified in Building Deep Learning Models using TensorFlow (Coursera) | Nov 2023 |
| • Certified in Machine Learning (Coursera)                               | Nov 2023 |
| • Certified in Image and Video Processing (Coursera)                     | Feb 2024 |
| • Certified in Agile Software Development (Coursera)                     | Feb 2024 |
| • Certified in Hands on DevOps using AWS (GLA University)                | May 2021 |
| • Certified in Deep learning and Reinforcement learning (Coursera)       | May 2024 |
| • Certified in Neural Networks and Deep learning (Coursera)              | Nov 2024 |

## Key Skills

- **Languages:** | Python | JavaScript | SQL | HTML | CSS
- **Frameworks:** TensorFlow | Scikit-learn | NumPy | Pandas | Matplotlib | NLP | Transformers | FastEDA
- **Technical Skills:** Machine Learning | Deep Learning | Web Development | Cloud Computing | Data Analytics
- **Soft Skills:** Leadership | Team Player | Attention to Detail | Problem Solving | Mentorship

## Internship Experience

### GLA University, Mathura

June - July 2021

#### *Hands on DevOps using AWS*

- Collaborated in a team of 2 for **Deploying and Hosting Dynamic Website.**
  - **Technologies Used :** HTML, CSS, JS, PHP(File Handling), AWS

### Fulgent technologies Pvt Ltd, New Delhi

Mar – Aug 2019

#### *Web Development*

- **Developed Pharmacy Management System**
  - **Technology Stack :** HTML, CSS, JavaScript, PHP-File Handling
- **Developed Hospital Management System (.NET)**
  - **Technology Used :** .NET, PHP