

Manish Kumar Baitharu

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Education

Institute Of Technical Education and Research	09/2023-Present
B.Tech in Computer Science and Engineering CGPA: 8.15/10.0	
ODM Public School	2022
CBSE High School 80.3%	
Prabhuji English Medium School	2020
CBSE Secondary School	

Projects

News Article Summarization using Deep Learning

Dec 2025 – Jan 2026

- Built an abstractive summarization model using **Seq2Seq with Luong attention** on the CNN/DailyMail dataset.
- Applied text preprocessing, attention mechanisms, and encoder-decoder architecture for summary generation.
- Evaluated results using **ROUGE and BLEU** metrics.

Tools/Tech: Python, TensorFlow, Keras, Scikit-learn, NLTK, Pandas.

Movie Recommender System

Sep 2025 – Oct 2025

- Developed a **movie recommendation web app** using **Natural Language Processing (NLP)** to suggest similar movies based on user input.
- Deployed the app using **Streamlit**, delivering an interactive and user-friendly interface to improve engagement.

Tools/Tech: Python, Pandas, NLTK, Scikit-learn, Streamlit.

Cancer Detection Using Deep Learning

May 2025 – June 2025

- Developed a deep learning model using **ResNet50 with transfer learning** to classify ovarian cancer from ultrasound images, achieving 98% accuracy.
- Improved model interpretability using **Grad-CAM** and **LIME visualizations** to highlight regions of interest and explain predictions.
- Conducted **data augmentation, misclassification analysis, and ROC-AUC evaluation** to ensure robust validation.

Tools/Tech: Tensorflow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.

Technologies

Languages: Python, Java, C

Frameworks & Libraries: OpenCV, Streamlit, NLTK, Scikit-Learn.

Databases: SQL

Core Skills: Machine Learning, Deep Learning, Data Analysis, Data Structures, Object-Oriented Programming (OOP), Database Management (DBMS), Computer Networking, Operating System.

Training and Certifications

- **HackerRank Java (Certification)**
- **HackerRank Python (Certification)**
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate**
- **Kaggle Intermediate Machine Learning Certificate**