

Shubham Dey

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EDUCATION

Course	University/Board	Year	CGPA/%
M.Sc in Computer Science	Banaras Hindu University	2023–25	8.9 CGPA (Gold Medal)
B.Sc (Hons.) in Computer Science	Visva Bharati University	2020–23	8.83 CGPA (1st Rank)
Intermediate (Science)	CBSE	2020	95.2%
Matriculation	CBSE	2018	92.4%

PROJECTS

- RecSum: A Recursive Framework for Summarizing Legal Documents** Jan 2025 - May 2025
Master's Dissertation
 - Implemented a recursive NLP framework to summarize long legal texts using BART/DistilBART.
 - Outperformed LLMs and legal-specific models on ROUGE and BLANC evaluation metrics.
 - Improved summary accuracy and context retention for large-scale legal documents.
- A Comparative Study of Abstractive Text Summarization Techniques** Aug 2024 - Dec 2024
Minor Project as part of Curriculum
 - Conducted an in-depth evaluation of six abstractive summarization models (Seq2Seq with Attention, BERTSUM-ABS, BART, T5, PEGASUS, XLNet) on benchmark datasets (CNN/DailyMail, XSum, Gigaword). Analyzed performance using ROUGE and BLEU metrics to assess fluency, coherence, and content accuracy.
 - PEGASUS excelled in multi-sentence summarization, while T5 led in single-sentence and headline generation. BART showed consistent, competitive performance across all datasets.
- Sentiment Analysis of Tweets** July 2024
Personal Project
 - Built a sentiment analysis model using NLP to classify tweets as positive or negative. Collected, cleaned, and preprocessed a large tweet dataset by removing noise (hashtags, mentions, URLs). Applied machine learning for classification, focusing on text mining, data analysis, and visualization to uncover sentiment patterns.
 - Achieved optimal model performance with 82.03% accuracy, 81.20% precision, 82.76% recall, and an F1-score of 81.97%.

SKILLS AND INTERESTS

- General:** Python, C/C++, Java, MATLAB, SQL, Git/GitHub
- Data Science & ML:** Scikit-Learn, NLTK, OpenCV, Tensorflow/Keras
- Data Visualization:** Matplotlib, Seaborn
- Interests:** Machine Learning, Text Mining, Information Retival, Natural Language Processing

RELEVANT COURSES & CERTIFICATIONS

Artificial Intelligence	Machine Learning	Text Mining
Python Programming	Data Structures	Design & Analysis of Algorithms
Artificial Neural Networks	Probability & Statistics	Linear Algebra
Data Science for Engineers	Calculus	Numerical Methods

ACHIEVEMENTS & AWARDS

- Qualified GATE - Computer Science & Information Technology (2026).
- Awarded BHU Gold Medal for securing 1st position at M.Sc. Computer Science Examination, 2025.
- Qualified UGC NET - JRF (Jun 2025) & UGC NET (Dec 2024) in Computer Science & application.
- Qualified GATE - Data Science & Artificial Intelligence (2025 & 2026).
- Awarded UGC National Scholarship for Post Graduate Studies (2023-25).
- Secured 1st rank among all successful candidates in B.Sc.(Honours) in Computer Science Examination, 2023.