

Shubham Dey

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Objective

Tech enthusiast with a strong interest in exploring and learning new technologies. Passionate about programming and development, with a problem-solving mindset focused on optimizing applications for improved stability and performance.

Education

• Banaras Hindu University	Varanasi, Uttar Pradesh
• <i>M.Sc. in Computer Science, (GPA: 8.9)</i>	2023 - 2025
• Visva Bharati University	Santiniketan, West Bengal
• <i>B.Sc. (Honours) in Computer Science, (GPA: 8.83)</i>	2020 - 2023
• Jawahar Navodaya Vidyalaya	Bokaro, Jharkhand
• <i>Intermediate (Science), CBSE, (GPA: 95.2%)</i>	2020
• Jawahar Navodaya Vidyalaya	Bokaro, Jharkhand
• <i>Matriculation, CBSE, (GPA: 92.4%)</i>	2018

Technical Skills

- **General:** Python, C/C++, JAVA, MATLAB, SQL, Git/GitHub
- **Data Science & ML:** Numpy, Pandas, Scikit-Learn, NLTK, OpenCV, Tensorflow/Keras, PyTorch
- **Data Visualization:** Matplotlib, Seaborn
- **Web Technologies:** HTML5, CSS, JavaScript, PHP
- **Platforms:** Linux, Windows

Projects

- **A Comparative Study of Abstractive Text Summarization Techniques** Aug 2024 - Dec 2024
Tools: Python, Jupyter, Machine Learning, NLP, Transformer Models, Data Preprocessing, PyTorch. [GitHub Repo]
 - Conducted an in-depth evaluation of six abstractive summarization models (Seq2Seq with Attention, BERTSUMABS, 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
Tools: Python, Jupyter, NLTK, Scikit-Learn, Pandas, Matplotlib, WordCloud, Streamlit [GitHub Repo]
 - 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%.

Relevant Courses & Certifications

- **Computer Science:** Data Structures , Design & Analysis of Algorithms, Text Mining, Neural Networks, Artificial Intelligence, Machine Learning, Image Processing, Network Programming, Information Security, OOP using Java, Operating System, Database Management System, Computer Networks, Computer Architecture, Computer Graphics
- **Mathematics:** Linear Algebra, Calculus, Differential Equations, Discrete Mathematics, Probability & Statistics, Operational Research, Numerical Analysis
- NPTEL - Programming, Data Structures & Algorithms with Python
- NPTEL - Programming in Modern C++
- freeCodeCamp - Scientific Computing with Python
- freeCodeCamp - Responsive Web Design

Achievements & Awards

- 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)
- 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.