

SHANKUL PATEL

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About

I am final year M.Tech Data Science student at JNU, New Delhi, specializing in Natural Language Processing with transformers and Large Language Models. I'm also actively exploring the emerging field of Multimodal Machine Learning focusing on integrating multiple data modalities with Deep Learning to enhance understanding, interpretation and decision-making. With a strong academic foundation and technical expertise, I am dedicated to advancing the state-of-the-art in the field while contributing to meaningful societal progress.

Education

Master of Technology (Data Science) Jawaharlal Nehru University, New Delhi, CGPA: 8.41/9	2023 – 2025
Master of Computer Applications Jawaharlal Nehru University, New Delhi, CGPA: 7.13/9	2021 – 2023
Bachelor of Computer Applications PPN PG College, CSJM University Kanpur UP, Percentage: 66.13	2017 – 2020
Intermediate (PCM) BN Inter College, UP Board, Percentage: 82.40	2017
High School MPHSS, UP Board, Percentage: 82.33	2015

Additional Qualifications

UGC NET with Junior Research Fellowship (JRF) Computer Science and Applications, Percentile: 99.9779354	Dec 2024
GATE (DA); GATE (CS)	2025, 2024; 2023

Research Articles

Swati Todi, **Shankul Patel**, Poonam Agarwal. Bi-functional Glucose Sensing-Transmission (Sens-Tra) Sensor for IoT-based Applications (*communicated in SCIE Journal*)

Swati Todi, **Shankul Patel**, Poonam Agarwal. Correlation Study of the Received Signal Strength Indicator (RSSI) relative to Glucose Concentration using ESP8266-01 Wi-Fi Module (*communicated in SCIE Journal*)

Research Interests

Deep Learning and Multimodal Machine Learning Large Language Models	Natural Language Processing Computer Vision
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Courses and Skills

Information Theory	AI & ML	Python
Optimization	Theory of Computation	PyTorch
Linear Algebra	Algorithms	HuggingFace
Probability	Computer Networks	LaTeX

Projects and Dissertation

Step Counter based on Triboelectric Energy Harvester (TEH) using ESP32 (MCA Project)

Multimodal Visual Understanding and Description (MTech Dissertation)

Certificates

Deep Learning for Computer Vision , NPTEL (IIT-H), Prof. Vineeth N.B., Percentage: 67%	Nov 2024
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