

# GYANDEEP MISHRA

Final-Year Undergraduate – Electronics and Communication Engineering  
Passionate programmer, scalable system designer, all-round tech enthusiast

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## Academic Qualifications

Year	Degree	Institute	Performance
2022 – 2026	B.Tech (ECE)	SRM Institute of Science & Technology, Kattankulathur	CGPA: 8.3 / 10
2020 – 2021	Class XII (CISCE)	City Montessori School, Lucknow	90.25%
2018–2019	Class X (CISCE)	City Montessori School, Lucknow	88.25%

## Key Projects

### Multimodal Deep Learning Based Precision Treatment for Lung Cancer | *Python, TensorFlow, EfficientNetB0, OpenCV, Scikit-Learn, NumPy, Pandas*

- Built multimodal deep learning framework integrating CT imaging and clinical patient data for lung cancer subtype classification.
- Achieved 96.8% classification accuracy using feature-level fusion, outperforming individual CT (87.4%) and clinical (88.8%) models.

### Soil Moisture and Fertility Analysis with Camera Integration | *Arduino, YOLOv8, Flask, Kaggle Notebook, Python, HTML, CSS*

- Built IoT-enabled system with Arduino and YOLOv8 to analyze 500+ soil images daily.
- Achieved 92% fertility detection and 88% moisture classification, reducing water use by 20–25%.
- Automated data pipeline using Python scripts, reducing manual workload.

### High-Performance Multi-threaded DPI Engine for Network Traffic Analysis | *C++, Multithreading, PCAP, TLS, Network Security*

- Designed and implemented a DPI-based traffic analyzer capable of processing network packets with 100% throughput (0% packet drop).
- Classified network traffic across 15+ applications and protocols, with HTTPS dominating at 50.6% of total traffic.
- Extracted and analyzed 18+ domain names via TLS SNI, enabling visibility into encrypted traffic.

### Drug Discovery and Management System | *Python, Pandas, NumPy, Streamlit, tensorflow*

- Built drug management platform analyzing 10,000+ compound datasets with ML models.
- Deployed model using Streamlit showing basic web automation & deployment experience.
- Improved prediction efficiency by 30% and reduced analysis time by 40%, accelerating discovery.

## Certifications & Achievements

- AI Fundamentals with IBM SkillsBuild (2025), Cisco Networking Academy
- Programming Test Series (C & Python) (2025), Sanfoundry Programming in Java
- ENDURO Software Training & Values Empowerment Workshop (2022)

## Technical Skills

Programming Languages	Java, Python, C++, C, SQL
Areas of Interest	Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Natural Language Processing
Databases	MySQL, MongoDB
Tools and Technologies	Jupyter Notebook, Google Colab, Excel, MATLAB, Visual Studio Code, Arduino IDE, Flask, Streamlit, MS Office, Cisco Packet Tracer, AutoCAD, Git and GitHub.