DHRUV RAJORIA

 J 6239319984

 □ rajoriadhruv4@gmail.com
 □ linkedin.com/in/dhruv-rajoria
 □ github.com/dhruvRajoria
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Education

Thapar Institute of Engineering and Technology

Bachelor of Engineering in Computer Science

Sept 2022 – May 2026 CGPA: 8.36

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Quantum Computing
- Operating Systems
- Database Management Systems
- Artificial Intelligence
- Software Engineering
- Computer Networks
- Computer Architecture
- Machine Learning
- Cloud Computing
- Foundations of Data Science
- Natural Language

Statistics

Processing
• Predictive Analysis using

Experience Velocis Systems Pvt. Ltd.

roundations of Bata science

June 2025 - July 2025

Noida / India

- Puthon Networking Intern
- Automated network device interactions using Python, Paramiko, and Netmiko.
- Streamlined SSH-based remote access, configuration, and monitoring tasks across the network infrastructure.

Projects

Orbit Forecaster 🖸 | Python, Scikit-learn, Pandas, Seaborn

- Preprocessed SDSS satellite telemetry data (10k+ records, 18 features) by removing $\sim 9\%$ outliers via IQR filtering; validated with multi-panel boxplots.
- Trained a Random Forest model achieving $R^2 \approx 0.89$ to forecast redshift and orbital parameters.
- Enabled collision avoidance and mission planning through accurate trajectory prediction.

Multi-Drone Deployment and Surveillance System | Python, YOLOv8, OpenCV, Raspberry Pi, LiDAR, Camera Module

- Achieved 87% object detection accuracy at 20 FPS in aerial footage using YOLOv8 and OpenCV, optimized for deployment on Raspberry Pi 4B.
- Integrated LiDAR and camera modules to estimate distances with ± 10 cm precision up to 12 meters, enabling obstacle avoidance and coordination across 2 autonomous drones.

Image Caption Generator \bigcirc | Python, Tensorflow, Keras, Matphotlib, NumPy, Pandas, CNN, LSTM, Streamlit

- Achieved 90% accuracy on Flickr8k with an image captioning model using DenseNet-201 + LSTM.
- Deployed a Streamlit web app for real-time image uploads and AI-generated captions.

Topsis Python Package () | Python, PyPI, NumPy, Pandas

- Published a Python package for solving Multi-Criteria Decision Analysis problems using the TOPSIS method.
- Made available on PyPI, reaching a user base of 900,000+ developers for direct installation and use.

Technical Skills

Programming Languages: C/C++, Python, SQL, MySQL, R

Frameworks and Libraries: Pandas, NumPy, Flask , Scikit-Learn, PyCaret, TensorFlow, PyTorch

Tools and Environments: Git/GitHub, VS Code, Matlab, Postman, GNS3, CiscoPacketTracer, Jupyter, Unix

Certifications

• AWS Academy Graduate – AWS Cloud Developing – AWS Academy

Aug 2024 - Dec 2024

• AWS Academy Graduate – AWS Cloud Foundations – AWS Academy

Aug 2024 – Dec 2024

• Natural Language Processing with Classification and Vector Spaces – DeepLearning.AI (Coursera) May 2025

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• Natural Language Processing with Probabilistic Models – DeepLearning.AI (Coursera)

May 2025

Position of Responsibility

• Core Member | URJA

Jan 2024 - Jan 2025

Facilitated discussions and brainstorming sessions with 15+ members to generate innovative ideas for events.

- Committee Representative \mid Rotaract Club of TIET

Jan 2024 - May 2024

Managed and executed various social service events in local communities.

Achievements

- Finalist in the nationwide Hackathon HackTu 5.0; ranked in top 5% of 300+ participants for developing a full-stack solution using MongoDB and Node.js.
- Bagged a gold medal in archery at National Level, outperforming 250+ competitors.