Rishabh Raj

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Education

Madan Mohan Malaviya University Of Technology, Gorakhpur

Bachelor of Technology - Electronics and communication Engineering (Pursuing)

(CGPA: 7.23) (August 2022 - April 2026)

Skills

- **Programming Languages:** Python, C++, DSA, MATLAB, SQL, JavaScript, HTML, CSS, React
- **Data Science Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Jupyter Notebooks
- **Electronics software Tools:** MULTISIM, ArduinoUNO
- **Software Development and Version Control:** Git, VS Code, PyCharm
- **Cloud Platforms:** AWS, Azure
- **Analytical Skills** Statistical Analysis, Data Cleaning, Machine Learning Algorithms, Model Evaluation
- **Project Management:** Agile, Scrum
- **Soft Skills:** Technical Writing, Team Collaboration, Problem-Solving, Critical Thinking

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Projects

National Service Scheme cell Website

– **Full stack website:** it full stack website having Razorpay integration.

Predictive Maintenance for Mechanical Systems

– **Tech Stack:** Python, Pandas, Scikit-learn, SQL, AWS
– Predicted equipment failures using sensor data and machine learning.

HVAC Energy Optimization

– **Tech Stack:** Python, TensorFlow, MATLAB, AWS
– Optimized HVAC energy consumption using predictive analytics.

Smart Manufacturing with IoT and ML

– **Tech Stack:** Python, Raspberry Pi, TensorFlow, AWS
– Designed an IoT system for monitoring and optimizing manufacturing processes with machine learning.

Structural Health Monitoring

– **Tech Stack:** Python, MATLAB, ANSYS
– Monitored structural health using sensor data and machine learning to predict failures.

Responsibities

National Service Scheme (NSS)

– **Secretary:** Led team for events and workshops,Managed NSS website and technical infrastructure.

Electronics and communication Engineering (ECES)

– **Co editor:** led the society for various events and workshop,Managed audio-visual setups and logistics.