# Reedham

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## EDUCATION

**Rajiv Gandhi Institute of Petroleum Technology**                                     **2022 – 2026**
*(An **Institute of National Importance** along the lines of IITs)*          *Amethi, Uttar Pradesh, India*
B. Tech in Electrical Engineering (Major : E -Vehicle)

**DAV Public Sr. Sec. School**                                                           **2020 – 2021**
CBSE Class 12th - **Percentage - 89%**                                    *Solan, Himachal Pradesh, India*

**DAV Public Sr. Sec. School**                                                           **2018 – 2019**
CBSE Class 10th - **Percentage - 79%**                                    *Solan, Himachal Pradesh, India*

## EXPERIENCE

**Tata 1mg** 🔗                                                                **Dec 2023 – Mar 2024**
Web Analytics Intern
- Developed data pipelines and predictive models using Python, improving business insights.
- Engineered features from large-scale healthcare datasets using Pandas and NumPy.
- Built interactive dashboards using Tableau to visualize ML model performance and key metrics.

## PROJECTS

**WiFi-Based Joint Activity and Location Estimation Using Deep Learning**     **May, 2023 - Ongoing**
- Designed and implemented a novel **CNN** architecture achieving 92% accuracy in activity classification.
- Engineered feature extraction pipeline for WiFi Channel State Information (**CSI**) data
- Utilized **TensorFlow** and **Keras** to build and train models on **edge devices** (ESP32)
- Optimized model performance through hyperparameter tuning and cross-validation

**Computer Vision Models for Handwritten Digit Recognition**                       **October, 2023**
- Implemented and compared CNN and CapsNet architectures using PyTorch.
- Achieved 99.4% accuracy on MNIST dataset through ensemble learning.
- Deployed model using Flask API for real-time predictions.

**Snake game**                                                                      **November, 2020**
- A classic Snake Game created using PyGame module of Python.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, HTML5, CSS3, C, C++, Dart

**ML/AI:** Scikit-learn, Deep Learning, Computer Vision, Natural Language Processing (NLP)

**Data Science:** Pandas, NumPy, Matplotlib, Seaborn, Jupyter, Feature Engineering

**Tools/Platforms:** Git, Docker, AWS/GCP, MLflow, Linux, WSL2

## VOLUNTEER EXPERIENCE

**Science and Technical Council, RGIPT** - Kode Club Executive

**OWASP Student Chapter, RGIPT** - Active Member

**IEEE Student Branch, RGIPT** - Active Member

## ACHIEVEMENTS

- Ranked in top 200 (peak rank 137) out of 74,000+ participants in Amazon ML Challenge
- Runner-up in Momentum Event held at Technex 2023, IIT(BHU)
- Qualified for JEE Advanced, 2022