# NAILA FATHIMA

Assistant Professor, Department of Computer Science Engineering
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## Objective

Dedicated CSE MTech graduate and Assistant Professor with strong expertise in Computer Science, Machine Learning, and Data Management. Experienced in hands-on industry projects as a former Senior Associate at Wipro working on high-impact technology solutions. Adept at teaching core subjects like DBMS AI ML while cultivating problem-solving and technical skills in students. Skilled in cross-functional collaboration, communication protocols, and continuous technical learning

## Academic Experience

### Lords Institute of Engineering and Technology

**Assistant Professor** – Computer Science Engineering & Artificial Intelligence and Machine Learning Artificial Intelligence and Machine Learning(CSE-AIML)
Course Taught: -Artificial Intelligence AND Machine Learning

### WIPRO TECHNOLOGY PRIVATE LIMITED

**Senior Associate**

Worked as a Senior Associate at Wipro on a Google client project utilizing the Crowd Compute UI platform for Waymo. Focused on self-driving autonomous vehicle technology designed to ensure safe, 360-degree automated movement and mobility. Collaborated with cross-functional teams to deliver high-quality technology solutions.

## Educational Qualifications

- Master of Technology (MTech.) in Computer Science Engineering
- Bachelor of Technology (B.Tech.) in Computer Science Engineering
- Intermediate (MPC)
- SSC

## Publications & Projects

### 1, Deep Learning for Large-Scale Traffic-Sign Detection and Recognition

Implemented deep learning algorithms to detect and classify traffic signs accurately across large-scale, real-world datasets. Focused on optimizing computer vision models for fast, multi-class recognition in varied environmental conditions. Aimed at improving real-time object identification for autonomous driving and intelligent transportation systems.

## 2, A Comprehensive Review on Cyber-Attacks in Power Systems: Impact Analysis, Detection, and Cyber Security

Conducted an extensive review analysing the landscape of cyber-attacks on modern power grids and critical energy infrastructure. Evaluated the operational impacts of threat vectors while exploring state-of-the-art detection methodologies. Examined robust cybersecurity frameworks designed to protect smart grids and power systems against emerging threats.

## 3, Analysis of Neural Machine Translation for English to Hindi using Long Short Term Memory Model & Transforms Models

Neural Machine Translation (NMT) has significantly improved the quality of automatic language translation by employing deep learning techniques to understand and generate natural language. English-to-Hindi translation is particularly challenging due to differences in grammar, sentence structure, morphology, and vocabulary between the two languages. Traditional statistical machine translation methods often fail to capture long-range contextual dependencies, resulting in less accurate translations.

## Areas of Interest

- Data Structures & Algorithms (DSA)
- Database Management Systems & Data Warehousing
- Machine Learning & Cloud Computing
- Big Data & Data Analytics
- Software Development Lifecycle (SDLC)