

Resume

Ifrah Alam

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Objective

To gain an in-depth knowledge in machine learning and artificial intelligence through various projects and establish a career in the same.

Education

Program	Grades
1. Communication Engineering, M.Tech, VIT Vellore, India July 2020 – May 2022	CGPA: 9.34
2. Electronics and Communication Engg. (B.Tech) Jamia Millia Islamia University, New Delhi, India July 2010 - June 2014	CGPA: 8.82/10

Work Experience

August 2019 – July 2020

Innovation Engineer | Nex-G Exuberant
Solutions Private Limited, Noida, Sector-65

Responsibilities:

- Study of 3GPP TS 36.321, TS 36.322, TS 36.323, TS 36.331
- Test case execution and generating test scenarios.
- Tests performed including LTE Attach Procedure and IMS Registration.
- Debugging codes and analyzing available logs.
- Effectively tracking bugs so that they get fixed and improve system stability.

Skills

- LTE (MAC, RRC)
 - LTE call flow
 - LTE RACH procedure
 - LTE cell selection
 - LTE cell reselection
 - LTE frame structure
 - LTE numerology
 - Initial power on-off procedure
 - Radio bearers
 - Default bearer

- Dedicated bearer
- Guaranteed and non-guaranteed bit-rate
- LTE handover
- LTE carrier aggregation
- 5G-NR (basic)
- Windows OS

Research Experience

Advancing the Investigation and Treatment of Sleep Disorders using AI

Chapter 10

<https://www.igi-global.com/book/advancing-investigation-treatment-sleep-disorders/267227>

Ongoing Research Work

- Graph Signal Processing–Thesis Paper
I have worked on optimization algorithms for computing Laplacian matrices in Graph Signal Processing, which is an extension of the Sparse Inverse Covariance Selection problem.

Tools

- C
- C++
- MATLAB
- Python
- Git
- CMW 500

Other Online Courses

Futuristic Wireless Communication and IoT: 5G and Beyond

November 7, 2020 - November 11, 2020

NIT Rourkela, India

Advances in Deep Architectures for Signal, Image and Vision Applications

November 30, 2020 - December 6, 2020

IIIT Allahabad, India

Emerging Wireless Technologies: Connecting the Future

March 19, 2022 – March 23, 2022

NIT Rourkela

Artificial Intelligence and Machine Learning with Python

January 16, 2023 – October 2023

IIT Kanpur

Declaration

I hereby declare that the information provided by me above is true to the best of my knowledge.

