

SALIM

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Summary — M.Tech graduate in Communication and Information Systems with expertise in digital signal processing, and programming. Quick learner and team player.

Skills

Key Skills Problem-solving, Teamwork, Quick Learning

IT Skills Full-stack Development, Python FastAPI, React.js, MySQL, HTML, CSS, JavaScript, MATLAB

Domain Skills Digital Signal Processing, Wireless Communication, 5G

Experience

IIT Delhi

Dec 2022 – Present

Project Staff

- Worked on underwater acoustic communication and underwater visible light communication.
- Currently engaged in web design projects for digital and analog communication virtual labs.

Education

Zakir Husain College of Engineering and Technology, Aligarh

2021

M.Tech in Communication and Information Systems

Aliah University, Kolkata

2018

B.Tech in Electronics and Communication Engineering

WBCHSE

2014

XIIth

WBBSE

2012

Xth

Projects

Receiver Signal Processing for 5G and Beyond

- Researched millimeter-wave (mmWave) massive MIMO systems and various beamforming techniques (analog, digital, hybrid).
- Worked on spatially sparse precoding, mmWave channel estimation, and ray tracing techniques.
- Explored challenges in 5G communication, focusing on spatial consistency and human blockage effects.

5G Millimeter Wave Channel Models

- Studied different 5G channel models and the impact of mmWave technology in enabling high-frequency communication.
- Analyzed massive MIMO systems and investigated beamforming strategies for improved performance.