

YERRAM DEEKSHITH KUMAR

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💻 leetcode.com/Deekshith

OBJECTIVE

M.Tech student in Signal and Image Processing with strong foundations in C/C++, data structures, and software development. Hands-on experience in building scalable ML-based systems and cloud-integrated applications. Seeking an R&D software engineering role to contribute to high-performance solutions in embedded, industrial, or cloud-based environments.

EDUCATION

National Institute of Technology, Rourkela

M.Tech., Signal & Image Processing (CGPA: 8.10/10)

Aug 2024 – Present

Rourkela, Odisha

Tezpur University

B.Tech., Computer Science & Engineering (CGPA: 7.10/10)

Sep 2020 – Jul 2024

Tezpur, Assam

Sri Chaitanya Junior College

Intermediate (95.6%)

Jun 2018 – Mar 2020

Hyderabad, India

RELEVANT COURSEWORK

- Machine Learning
- Image Processing
- Operating Systems
- Natural Language Processing
- Data Structures & Algorithms
- Embedded Computer Systems

EXPERIENCE

National Institute of Technology, Rourkela

Teaching Assistant – AI/ML and Signal Processing

Aug 2024 – Present

Rourkela, Odisha

- Assisted in lab sessions on machine learning and signal processing; prepared example problems and helped students debug code.

Indian Institute of Technology, Kharagpur

Research Intern

Jun 2023 – Nov 2023

Kharagpur, West Bengal

- Worked on facial recognition system using CNN models for identity verification use cases.
- Gained exposure to blockchain concepts and contributed to prototype implementation for secure identity.

Navalogy Club, Tezpur University

Technical Team Member

Sep 2022 – Jun 2023

Tezpur, Assam

- Implemented basic ML algorithms for anomaly detection in IoT healthcare datasets.

PROJECTS

InfoGenie – AI Chatbot using T5 Model

Jul 2024

- Built a chatbot using Lamini-T5 for answering domain-specific queries. Paper accepted at ICS 2024 (Springer).
- Integrated with a Flask backend for real-time query handling and explored deployment readiness for AWS-based environments.

Video Super-Resolution using ConvLSTM (GSTIR)

Jun 2025

- Implemented a ConvLSTM-based architecture (GSTIR) for space-time video super-resolution using the Vimeo90K dataset.
- Integrated global temporal and spatial modules, attention mechanisms (CBAM), and Charbonnier loss for high PSNR/SSIM.
- Demonstrated advanced ML pipeline structuring and parameter tuning for deep video learning use cases.

PUBLICATIONS & CERTIFICATIONS

- InfoGenie: Chatbot Using Modern NLP, ICS 2024 (Springer) Jul 2024
- NPTEL Data Analytics with Python(Top 5%) Dec 2023
- IIITH-Foundation of Modern Machine Learning Jul 2023
- IIT Kharagpur Research Internship Certificate Jun 2023

TECHNICAL SKILLS

Languages: Python, C, C++, Java (Basics)

Tech Stacks: Flask, Node.js, Full Stack Dev (HTML, CSS, JS)

AI/ML: Deep Learning, Video STSR, CNNs, NLP (Lamini T5), Predictive Modeling

Cloud & DevOps: AWS (basic), SaaS Concepts, Git, Linux

Tools: Git, Linux, Windows

Software Engineering: OOP Principles, Modular Design, Version Control

LEADERSHIP

Tezpur University Computer Society

Sep 2022 – Jun 2023

Technical Team Coordinator

Tezpur, Assam

- * Led 10+ hackathons and tech talks for 200+ students, managing a team of 15.

Training & Placement Cell, Tezpur University

Feb 2022 – Nov 2022

Student Coordinator

Tezpur, Assam

- * Coordinated campus recruitment drives, enhancing placement outcomes for 100+ students.