

# LALAN KUMAR

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## SUMMARY

Final-year B.Tech student in **Computer Science and Business System** with strong fundamentals in **Software Engineering, Data Structures, and Algorithms**. Strong inclination towards programming and problem-solving, with the ability to analytically analyze challenges and propose effective solutions. Proficient in **Python, C++, and JavaScript**, with willingness to learn new technologies such as **Golang**. Good communication skills for coordinating with stakeholders and collaborating proactively in a team environment. Curious, self-motivated, and eager to create innovative solutions by exploring how systems work internally.

## EDUCATION

### Techno India University

Bachelor of Technology in Computer Science and Business System

July 2022 – June 2026

Kolkata, West Bengal

## COURSEWORK

- Data Structures
- Algorithms Analysis
- Operating System
- Database Management System
- Data Science
- Computer Network
- Information Systems
- System Security and Audit
- Software Development Life Cycle

## SKILLS & TECHNOLOGIES

**Programming Languages:** C++, Python, JavaScript

**Frontend:** HTML, CSS, React.js, RESTful API Integration

**Backend:** Node.js, Express.js

**Databases:** MySQL, MongoDB, SQL Server

**Tools:** Git, GitHub, Linux

**Other Skills:** Problem Solving, Analytical Thinking, Debugging, Solution Design, Code Review, Collaboration, Communication, Proactive Learning

## PROJECTS

### HealthConnect – Online Doctor Consultation Platform

August 2025 - Present

- Built a web-based platform connecting patients with doctors for online consultations and prescriptions.
- Integrated **REST APIs** for booking management, real-time chat, and medical record sharing.
- Ensured mobile responsiveness and cross-browser compatibility for seamless user experience.

### Image Captions Generator (Team Project) | [Link](#)

June 2025

- Developed a web app that generates captions for images using deep learning and computer vision.
- Used CNN (MobileNetV2) with LSTM for text generation, and deployed it using Streamlit.
- Tech Stack: Python, TensorFlow, Keras, NLTK, NumPy, Streamlit.

### IoT Mood Detector and Perfume Dispenser | [Link](#)

April 2025

- Built an IoT system that detects human emotions using a CNN model and controls a perfume dispenser via Arduino.
- Integrated Python with Arduino through serial communication for automation.
- Tech Stack: Python, OpenCV, TensorFlow, Arduino, IoT Hardware.

## ACHIEVEMENTS

- Achieved First Place in **IBM Expert Labs National Hackathon 2025**, a national-level competition, for presenting an innovative and impactful solution.
- Awarded a **gold medal** by the **Founder and Chancellor** of Techno India University for innovation and excellence.

## CERTIFICATIONS

- **Certified React Developer** – Validated skills in building dynamic and responsive web applications using React.js.
- Achieved **NPTEL** Elite certification in Python for Data Science with a score of 60%. - Certificate
- **JavaScript Certification** – Demonstrated proficiency in JavaScript programming, DOM manipulation, and ES6+ features. - Certificate
- Certified in Python For Beginners Course In-Depth – Completed a 7-hour course covering Python basics, programming concepts, and hands-on coding exercises. - Certificate
- Certificate of Completion in C++. - Certificate