Shubhodip Pal

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Professional Summary

A results-driven full-stack developer with hands-on experience in Java, Spring Boot, MySQL, and React.js. Proven ability to design and deploy scalable web applications and RESTful APIs with clean, maintainable code. Strong grasp of data structures and algorithms, with a focus on backend performance, modular design, and system architecture. Excellent communicator and collaborator in fast-paced, agile development teams.

Technical Skills

Languages: Java, JavaScript, Python
Frameworks: Spring Boot, React, Streamlit
Databases: MySQL
Tools: Git, GitHub, VS Code
Concepts: RESTful API Design, OOP, Agile, Modularization
Soft Skills: Problem Solving, Communication, Time Management, Adaptability, Collaboration

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Projects

NutriSift   GitHub   Live Website
Developed a recipe application using React and Spring Boot; integrated Cohere API for recipe generation. Implemented features such as grocery list creation, recipe filtering, and restaurant locator.
Technologies: React, Spring Boot, MySQL, Cohere API

Speech Emotion Recognition   GitHub
Designed a CNN-based emotion classifier using the SUBESCO dataset and achieved 99.38% accuracy. Presented findings at IEEE INDICON 2024 at IIT Kharagpur.
Technologies: Python, TensorFlow, CNN, Audio Preprocessing

Car Detection and Speed Estimation   GitHub
Developed a YOLOv8-based system using OpenCV to detect vehicles and estimate speed from traffic videos using frame tracking.
Technologies: Python, OpenCV, YOLOv8

Publication

Optimized Convolutional Neural Network-Based Bengali Speech Emotion Classifier
Published in: 2024 IEEE 21st India Council International Conference (INDICON)
DOI: 10.1109/INDICON63790.2024.10958244

Education

B.Tech in Computer Science and Technology	University of Engineering & Management, Kolkata
Aug 2022 – July 2026 (Pursuing)	**YGPA: 8.17 (Till 6th Sem)**
Higher Secondary (WBCHSE)	Baranagore Ramakrishna Mission, Kolkata
Jun 2022	Percentage: 78.8%
Secondary (WBBSE)	Baranagore Ramakrishna Mission, Kolkata
Mar 2020	Percentage: 86%

Certifications

- Alpha (DSA with Java) – Apna College
- Delta (Full Stack Web Development) – Apna College
- Data Structures & Backend with Java – Board Infinity (Coursera)
- AWS Fundamentals – Amazon Web Services (Coursera)