Shubhodip Pal

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CAREER SUMMARY

Final-year Full-Stack Developer with a focus on Java, Spring Boot, MySQL, and React.js. Building projects involving RESTful APIs and interactive web interfaces. Comfortable with data structures and algorithms in Java and currently exploring machine learning to expand technical knowledge. Enthusiastic about clean code, backend efficiency, and continuous improvement.

KEY SKILLS

- **Programming Languages**: Java, Python, JavaScript
- **Frameworks**: Spring Boot, React, Streamlit
- **Database Management**: MySQL
- **Version Control**: Git, GitHub
- **Areas of Interest:** Object-Oriented Programming, Database Management Systems
- **Soft Skills**: Problem-Solving, Critical Thinking, Teamwork, Communication Skills, Time Management, Learning & Adaptability

PROJECTS

- **Speech Emotion Recognition:** Developed a speech-emotion recognition system using the SUBESCO dataset and CNN, achieving 99.38% accuracy. Implemented efficient coding practices to handle large datasets and optimize model performance. This research was presented at the INDICON (IEEE India Council International Conference) 2024 at IIT Kharagpur, where it received valuable feedback and recognition from experts in the field.
  GitHub: https://github.com/Shubhodippal/Beyond_Words3.0.git
- **NutriSift:** Developed a React/Spring Boot recipe application that uses Cohere API for AI-powered recipe generation from available ingredients. Built core features including recipe discovery with filtering options, smart grocery list management, and restaurant map integration.
  GitHub: https://github.com/Shubhodippal/NutriSift.git
  Website: https://shubhodippal.github.io/NutriSift
- **Car Detection and Speed Estimation:** Created a system for detecting cars and estimating their speed using OpenCV and YOLO, leveraging frame-based tracking for accuracy.
  GitHub: https://github.com/Shubhodippal/Car-speed_detection_yolov8.git

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: Computer Science and Technology (Pursuing, 2026) **YGPA:** 7.96 (Till 5th sem)
University of Engineering & Management Kolkata – Kolkata, India

Higher Secondary: 2022
Baranagore Ramakrishna Mission Ashrama High School – Kolkata, India **Marks:** 78.8%

Secondary: 2020
Baranagore Ramakrishna Mission Ashrama High School – Kolkata, India **Marks:** 86%

CERTIFICATION

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