Shubhodip Pal

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CAREER SUMMARY

Final-year Java developer with a growing focus on Spring Boot, backend development, and database management. Solid understanding of data structures and algorithms (DSA) in Java, with hands-on experience building RESTful APIs and working with MySQL. Currently enhancing skills in Spring Boot and exploring machine learning concepts to broaden technical expertise. Passionate about clean, efficient code, backend optimization, and continuous learning.

EDUCATION

B. Tech: Computer Science and Technology (Pursuing, 2026)
University of Engineering & Management Kolkata – Kolkata, India

YGPA: 7.96 (Till 5th sem)

Higher Secondary: 2022
Baranagore Ramakrishna Mission Ashrama High School – Kolkata, India

Marks: 86%

Secondary: 2020
Baranagore Ramakrishna Mission Ashrama High School – Kolkata, India

Marks: 78.8%

KEY SKILLS

- **Programming Languages**: Java, Python, C++
- **Frameworks**: Spring Boot, Streamlit, Flutter
- **Database Management**: MySQL
- **Version Control**: Git, GitHub
- **Soft Skills**: Problem-Solving, Critical Thinking, Teamwork, Communication Skills, Time Management, Learning & Adaptability

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

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

- **Recipe Picker Application:** Developed a Flutter-based Recipe Picker app with dynamic recipe filtering by course, cuisine, diet, and cooking time, leveraging sql database and collaborating on UI enhancements.
  GitHub: https://github.com/Shubhodippal/RecipePicker

- **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

- **Jarvis:** Created a Python-based voice assistant utilizing speech recognition, pyttsx3, and the Cohere API. Enabled features such as task automation, weather updates, and email management, solving complex coding issues and voice processing.
  GitHub: https://github.com/Shubhodippal/JARVIS_ASSISTANT

CERTIFICATION

- Alpha (Dsa with Java) Apna College
- Flutter and Dart: Developing iOS, Android, and Mobile Apps by IBM (Coursera)
- Data Structures & Backend with Java by Board Infinity (Coursera)
- AWS Fundamentals by Amazon Web Services (Coursera)