KUMAR KAUSTUK RAJ

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Education

National Institute of Technology, Andhra Pradesh — **2025**
B.Tech in Computer Science and Engineering — 7/10 CGPA

Projects

Sketch To Face Transformation With Improved GAN ⚙ *GitHub*

- Evaluated multiple GAN models for transforming sketches into realistic images, selecting a U-Net architecture with Deep Convolutional layers that improved output quality, achieving a 15% increase in image fidelity and a 20% boost in detail accuracy.
- Achieved a 30% reduction in model training time by optimizing the architecture and utilizing efficient data preprocessing techniques.
- **Models Used:** GAN, U-Net, Deep Convolutional Layer
- **Tech Used:** Python, TensorFlow, Scikit-learn, Pandas

Recipe Blog ⚙ *GitHub*

- Developed a recipe blog platform hosting over 200 diverse recipes, attracting 1,000+ monthly users who engage through user-generated comments and ratings.
- Implemented an advanced recipe search feature that increased user engagement by 25
- Built an admin panel that streamlined content management, reducing the time to manage recipes, user accounts, and comments by 50
- **Tech Used:** MongoDB, Node.js, EJS, Authentication, Express.js

Hospital Management System ⚙ *GitHub*

- Developed a robust Hospital Management System using Spring Boot and Java to manage patient records, appointments, and medical staff.
- Implemented RESTful APIs for seamless communication between different modules of the application, ensuring efficient data handling.
- Utilized Spring Security for user authentication and authorization, ensuring data privacy and system security.
- **Tech Used:** Java, Spring Boot, RESTful APIs, Spring Security, MySQL, Maven

Shopping Cart Application ⚙ *GitHub*

- Built a scalable Shopping Cart application with Java and Spring Boot, enabling users to browse products, manage their cart, and process orders.
- Implemented features such as user authentication, product catalog display, and secure checkout functionality.
- Employed Spring Data JPA for efficient interaction with the database and Hibernate for object-relational mapping.
- **Tech Used:** Java, Spring Boot, Spring Data JPA, Hibernate, RESTful APIs, MySQL, Maven

Technical Skills

- **Languages:** Java, Python, C++, JavaScript, SQL
- **Java Development:** Core Java, Spring Boot, Spring MVC, Spring Security, Microservices, Hibernate, JPA, JDBC, RESTful APIs, MySQL, PostgreSQL, Apache Tomcat
- **Developer Tools:** Postman, IntelliJ IDEA, Eclipse, VS Code, Git, GitHub, Maven, Gradle, JUnit, Linux, Docker, Jenkins

Achievements

- Solved 2000+ DSA problems on Codeforces, LeetCode, GFG, InterviewBit
- Rated **Candidate Master** on Codeforces with Rating 1913. — Codeforces Profile
- Rated **Guardian** on Leetcode with Rating 2183. — LeetCode Profile
- Best Global Rank 57 in CodeForces Round 1030 (Div 2).
- Best Global Rank 11 in Leetcode contest .

Position of Responsibilities

- Member in NIT AP Tech Fest Organization Team
- Member at Praayatnam NIT AP