

# Sanjay Kumar Reddy Patterm

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## SKILLS

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**Technical Skills:** Java, Python, REST APIs, Microservices, System Design, Agile Methodologies, TDD, Linux  
**Frameworks & Libraries:** Spring Boot, React (MUI), Pandas, NumPy, Postman, PostgreSQL, Wireshark, Git, Github.

## PROJECTS

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### Knowledge Repository Portal | *Java, Spring Boot, React (MUI), PostgreSQL, AWS S3, Elastic Search* APR 2025

- Developed backend services using Java and Spring Boot to manage course assignments, user onboarding, and learning paths for over 3,000+ employees
- Built 12+ REST APIs for modules including Branding, FAQ, Learning Path, Insight360, Pathfinder, and Form Builder
- Optimized PostgreSQL queries, reducing API response time by 25%.
- Wrote 200+ JUnit test cases and achieved 87 percent code coverage using JaCoCo, improving system reliability.
- Worked on Junit testcases and used jacoco to determine achieved 87 percentage test coverage for the project and
- Collaborated with a team of 4 frontend developers to build 30+ responsive React components with MUI, ensuring seamless UI/UX integration.

### Low-light Pedestrian Detection using YOLOv8 | *Python, Pandas, Matplotlib, YOLOv8* Jan 2024

- Built an object detection system achieving 92% of accuracy in low-light conditions using YOLOv8.
- Used Kalman Filter to reduce frame noise by 40%, resulting in smoother pedestrian tracking.
- Validated and Trained Dataset over 35000+ images with yoloV8 for efficient pedestrian detection.
- Achieved performance evaluation using confusion matrix and accuracy score to validate model effectiveness.

### Personalized Recommendation System | *Python, Pandas, NumPy, HTML, CSS* Sep 2023

- Developed a solution focused on data cleaning and preprocessing to enhance user decision-making efficiency.
- Leveraged Python libraries such as Pandas and NumPy for efficient data manipulation and preprocessing.
- Integrated Flask framework to develop a user-friendly interface for seamless interaction with the solution.

## EXPERIENCE

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### Software Development Intern | *Incedo* Jan 2025 – July 2025

- Developing and maintaining scalable full-stack services using Java, Spring Boot, and React as part of a cross-functional team.
- Built and optimized REST APIs to handle business logic and data interaction with PostgreSQL and AWS S3.
- Worked with tools like Git, Postman, and JUnit for version control, API testing, and test coverage.
- Practiced Agile methodologies in daily standups, sprint plans and code reviews to align with development cycles.

### Creatives Team Lead | *TEAM SRM Hackathon* Aug 2022 – Jan 2025

- Led a 5-member creative team for TEAM SRM Hackathon Club.
- Coordinated design delivery timelines and ensured alignment with project themes and goals.

## EDUCATION

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### SRM Institute of Science and Technology

*Bachelor of Technology in Computer Science Engineering - 9.08 CGPA*

Kattankulathur, Chennai, India

*Sept 2021 - June 2025*

### Narayana Junior College

*Board of Intermediate Education, Andhra Pradesh - 948/1000*

Tirupathi, India

*Jun 2019 - July 2021*

### Masterminds School

*Board of Secondary Education of Andhra Pradesh - 9.7/10 CGPA*

Madanapalle, India

*Apr 2019*

## MISCELLANEOUS

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**Languages Known:** English, Telugu, Hindi, Tamil, Japanese

**Extracurricular Activities:** Competitive Valorant Player, Leaderboard Member of a Prestigious Club at SRM University.