

# Kartik Balaji

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## EDUCATION

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**Bachelors of Technology,** 2023 – present | Trichy, India  
SRM Institute of Science and Technology  
Computer Science Engineering with specialization in Big Data Analytics, CGPA : 9.8  
Major Coursework: Data Structures and Algorithms - Software Engineering - Machine learning - Artificial Intelligence - Deep Learning - Computer Vision

## PROFESSIONAL EXPERIENCE

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**Instamojo, Data Scientist** Jun 2024 – Sep 2024  
• Worked with data visualisation tools along with a team, performed tasks using PowerBI to help in the analysis of data

## PROJECTS

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**Minigame Simulator**, Java, Swing concepts, JDBC concepts, Game Development, Data Persistence  
• Developed a **Java-based mini-game simulator** featuring multiplayer games like **Connect 4, UNO, Tic-Tac-Toe, and Memory Game.**  
• Implemented **SQL-based player stats tracking**, including total matches played and wins.  
• Designed a **start menu for player input** and a **stats icon** for real-time performance display.

**AI-Powered Museum Ticket Booking System,**  
Python, AI/ML, Natural Language Processing (NLP), Chatbot Development, UI/UX Design  
• Developed an **AI-driven museum ticket booking platform** with a **GPT-powered chatbot** for real-time customer support and query handling.  
• Engineered a **seamless ticket reservation system**, integrating **conversational AI** to enhance user experience and automate responses.  
• Designed an **intuitive UI** to streamline the booking process and improve accessibility for users.

**Query based Course Selection for University Management System,**  
React, Spring Boot, MongoDB, SQL, AI/ML, Natural Language Processing (NLP)  
• Engineered a **full-stack University Management System** with a **React-hosted frontend** and a **Spring Boot backend**, integrating **MongoDB & SQL** for efficient data management.  
• Developed an **AI-powered course selection assistant**, leveraging **NLP and machine learning** to provide **personalized course recommendations** based on student responses to a **query-based survey**.  
• Designed a **seamless and interactive user interface**, optimizing the student experience in course selection and university administration.

## SKILLS

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**Programming and Scripting Languages:** C/C++, JAVA, Node.js, Python, React.js

**Database and Cloud Technologies:** MySQL, SQL, MongoDB, AWS, Azure, GCP

**Data Visualization and Analysis Tools:** Power BI, Matplotlib, Seaborn, Hadoop

**Technologies/Frameworks/Libraries:** HTML5, CSS3, React JS, Django, Bootstrap, TensorFlow, Keras, Scikit-learn, Pandas, NumPy

**DevOps Tools/Technologies:** Docker, Git, GitHub, Hadoop