

Kartik Balaji

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EDUCATION

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

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

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

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