

Srikar Kumar

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EDUCATION

SRM University

2022-2026

Kattankulathur, Chennai

BTECH CSE-BIG DATA

ANALYTICS

9.44 CGPA

KC Public School

2020-2022

Berhampur, Odisha

12TH Grade- 90.4% CBSE

St. Vincents Convent School

Berhampur, Odisha

10th Grade-90% ICSE

SUMMARY

Energetic and driven Computer Science Engineering (CSE) student at SRM University with a passion for technology and innovation. Currently pursuing a Bachelor's degree with a focus on building a strong foundation in computer science fundamentals and practical skills. Proficient in programming languages such as Python, Java, and C++, with hands-on experience in software development, web development, data analysis, and machine learning. Actively engaged in extracurricular activities, hackathons, and tech communities to enhance skills and broaden knowledge in the field. Committed to academic excellence, collaboration, and continuous learning to excel in the dynamic world of technology.

SKILLS

- **Programming Languages:** Python, Java, C++
- **Data Analysis:** Pandas, NumPy
- **Machine Learning:** Scikit-Learn
- **Data Cleaning and preprocessing**
- **Data Visualization:** Matplotlib, Seaborn
- **Database Management:** MySQL, SQLite
- **Tools:** Jupyter Notebook, Google colab
- **Statistical Analysis:** Regression Analysis, Time Series Analysis
- **AWS Cloud Foundation**
- **AWS Data Engineering**
- **Artificial Intelligence**
- **Problem Solving and Algorithms:**
Familiarity with data structures (e.g., arrays, linked lists, stacks, queues)
Understanding of algorithms and algorithmic complexity
- **Soft skills:**
Attention to detail
Problem-solving
Analytical thinking
Team collaboration
- **Operating System:**
Familiarity with different operating systems like Windows, Linux, or macOS

Github:

<https://github.com/SrikarKumar20>

Projects

1) **HousePricePredictor:** <https://github.com/SrikarKumar20/HousePricePredictor>

- Developed a machine learning project focusing on predicting house prices using linear regression.
- Gathered and preprocessed real estate data, including square footage, number of bedrooms, and location attributes.
- Implemented a linear regression model in Python, utilizing NumPy and scikit-learn.
- Employed techniques like feature scaling and regularization to enhance model performance and prevent overfitting.
- Evaluated model accuracy using metrics such as mean squared error and R-squared.
- Achieved successful predictions leveraging linear regression's ability to capture linear relationships between features and target variables.
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2) **SuperMarket Management System :**

<https://github.com/SrikarKumar20/SupermarketManagementSystem>

- Developed a comprehensive Supermarket Management System using Java, MySQL, and Swing JDBC.
- Designed an intuitive user interface using Swing to facilitate easy navigation and interaction.
- Integrated MySQL database to store and manage crucial supermarket data including product inventory, sales transactions, and customer information.
- Implemented functionality for managing inventory, processing sales, generating invoices, and tracking customer orders.
- Utilized JDBC for seamless communication between the Java application and the MySQL database, ensuring efficient data retrieval and manipulation.
- Employed object-oriented programming principles and design patterns to ensure code modularity, extensibility, and maintainability.
- Successfully delivered a robust and user-friendly system that streamlines supermarket operations and enhances overall efficiency.
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3) Quiz-App: <https://github.com/SrikarKumar20/Quiz-App>

- Created a dynamic Quiz Application using Django, a high-level Python web framework.
- Designed an interactive user interface allowing users to register, login, and participate in quizzes.
- Implemented features for creating, editing, and deleting quizzes, with support for various question types such as multiple-choice, true/false, and open-ended.
- Integrated authentication and authorization mechanisms to ensure secure access and management of user accounts and quiz data.
- Leveraged Django's built-in ORM to interact with the database, facilitating efficient storage and retrieval of quiz questions, user responses, and scoring data.
- Employed Django templating to render dynamic content and provide a seamless user experience across different devices.
- Implemented features such as real-time scoring, leaderboard tracking, and quiz result analysis to enhance user engagement and provide valuable feedback.
- Successfully delivered a fully functional Quiz Application that offers an engaging learning experience and promotes knowledge sharing and assessment.

4) Driver Drowsiness Detector: <https://github.com/SrikarKumar20/Driver-drowsiness-detection>

- Developed a Driver Drowsiness Detection System leveraging computer vision and machine learning techniques.
- Utilized Python and libraries such as OpenCV and dlib for real-time facial recognition and feature extraction.
- Implemented machine learning algorithms to analyze facial landmarks and detect signs of drowsiness, including eye closure and head pose changes.
- Integrated audio and visual alerts to notify the driver in real-time when signs of drowsiness are detected, helping prevent accidents due to driver fatigue.
- Designed a user-friendly interface for configuration and monitoring of the drowsiness detection system, providing flexibility and ease of use.
- Conducted extensive testing and optimization to ensure accurate and reliable detection performance under various lighting conditions and driver behaviors.
- Successfully delivered a robust and effective Driver Drowsiness Detection System that enhances road safety and reduces the risk of accidents caused by drowsy driving.