SIDDHARTH S

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EDUCATION

- **KPR Institute of Engineering and Technology** — Coimbatore, India

  B.Tech in Artificial Intelligence and Data Science ; CGPA - 7.3* (Till 4 th semester) — 2022 - 2026
  Executive Member of the IEEE Computational Intelligence Society (CIS).

SKILL SUMMARY

- **Languages :** Python , R , Java , SQL.
- **Frameworks/Tolls:** Pandas, Numpy, Scikit Learn, Visualization Libraries , Tensorflow, Keras, YOLO v5,v8 - 10,OpenCV, MySQL, MongoDB , Git, FastAPI, Postman , Streamlit.
- **Soft Skills :** Mathematics, Problem Solving and Critical Thinking, Effective Communication, Collabrative Team work .

WORK EXPERIENCE

- **Spotknack Services Pvt Ltd. -** (jan 2024 - feb 2024)
  Cloud Computing - AWS Intern.
  Acquired in-depth industry knowledge of EC2, S3, and RDS. I worked on AWS cloud infrastructure, deploying EC2 instances, managing S3 storage, and optimizing RDS databases. I also implemented automation with AWS Lambda and set up monitoring with CloudWatch to ensure system performance and reliability.

- **Codesoft Private Limited. -** (may 2024 - june 2024)
  Data Science & Analytics Intern.
  In this role, I analyze large datasets using big data technologies like Hadoop and Spark, develop predictive models with Python, and create visualizations using Tableau and Power BI. I also collaborate on data-driven projects to uncover insights that drive strategic business decisions, leveraging my skills in data wrangling, feature engineering, and machine learning algorithms.

PROJECTS

- **Attendance Monitoring System using opencv:**
  I used OpenCV for facial recognition and Streamlit for the user interface. The system captures and recognizes faces via webcam, logging attendance data into a MySQL database. The intuitive frontend, built with Streamlit, enables real-time tracking and reporting, enhancing attendance accuracy and efficiency.
- **Traffic Monitoring System using Hardware:**
  Developed a Traffic Monitoring System utilizing a Raspberry Pi kit, camera module, and YOLOv8 model for vehicle detection. This system captures real-time video feeds, processes them using YOLOv8 to identify and count vehicles, and facilitates data analysis.The project aimed to enhance traffic management by providing accurate and efficient monitoring .
- **Facial Emotion-Based Music Recommendation System :**
  Utilized Spotipy, Spotify Developers Client ID, Secret ID, DeepFace Models, and Streamlit to build a facial emotion based,music recommendation system. Implemented custom sliders on the web page for features such as acousticness, instrumentalness, liveliness,valence,etc.Successfullyintegratedtherecommendationsystemwithfacialemotion recognition for personalized music recommendations.

CERTIFICATES

- **Machine Learning Specialization in Stanford University | DeepLearning.AI - (Coursera)**
  - Supervised Machine Learning: Regression and Classification.
  - Advanced Learning Algorithms.
  - Unsupervised Learning, Recommenders, Reinforcement Learning.
  - It provides in-depth technical knowledge and practical skills essential for mastering various machine learning algorithms and techniques.
- **Exploratory Data Analysis for Machine Learning in IBM - (coursera)**
  - I gained comprehensive training in analyzing and visualizing data to extract insights and make informed decisions through the IBM Exploratory Data Analysis course.
- **Data Analytics with Python - (NPTEL)**
  - Explored advanced machine learning concepts andI gained proficiency in data analytics with Python.