N SUMRESH

B.Tech. - Computer Science & Engineering

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BRIEF SUMMARY

As a forward-thinking Computer Science student specializing in AIML, I excel in machine learning, neural networks, backend development with Oracle SQL and Python, and frontend development with React. Passionate about ML, data visualization, and React, I quickly adapt to new technologies, adding value through productivity and innovation with minimal guidance. My strong problem-solving skills and ability to learn independently prepare me to contribute effectively to teams at the intersection of data, software development, and emerging technologies.

KEY EXPERTISE

Machine Learning · Python · AIML · ReactJS · Statistics · Firebase · Deep Learning · Data Analytics · DBMS · Data Visualization · Data Processing · MySQL · Data Engineering · HTML · Predictive analysis · GIT · Pandas · FastApi · MLOPS · AWS · CPP · NoSQL · Oracle Database · SQL · Troubleshooting · Image Processing · Prediction

EDUCATION

SRM Institute of Science & Technology, Ramapuram B.Tech. - Computer Science & Engineering	CGPA: **9.91** / **10**	2021 - 2025
velammal vidyalaya, Chennai 12th	CBSE	Percentage: **88.60** / **100**	2020
velammal vidyalaya, Chennai 10th	CBSE	Percentage: **94.20** / **100**	2020

INTERNSHIPS

Siemens Pvt Ltd | IT / Computers - Software   08 Jan, 2024 - Present

Software Developer

Key Skills: ReactJS · Ai · Flask · Oracle Database · python · Api

As a software developer intern at Siemens, I led the integration of AI technology into the Sieskills project, enabling the recommendation of skill boosting courses tailored to team requirements. I developed a comprehensive application integrating Python for the backend with Flask and MySQL database. The frontend was built using React.js. Additionally, suggestions are powered by neural networks, employing both deep learning and machine learning algorithms.

Larsen & Toubro Ltd. | IT / Computers - Software   08 Dec, 2023 - 08 Jan, 2024

Software Developer

Key Skills: Sql Database · DBMS · Artificial Intelligence · Machine Learning · Flask · Deep Learning · Data Visualization

I introduced a face detection system for their management, employing machine learning algorithms to detect faces. Additionally, it offers real time alarm functionality along with attendance management integrated with an SQL database. Also,Engineered machine learning algorithms, incorporating Artificial Neural Networks (ANN), to analyze the organization's historical dataset.Led the design and integration of a Vendor Recommendation System seamlessly into current procurement systems and to provide personalized vendor suggestions using API calls.

PROJECTS

Ai Translate   27 Feb, 2024 - 02 Mar, 2024

Team Size: 3

Key Skills: Python · Streamlit · Firebase · flask · Machine learning · Artificial Neural Networks

Project Link: https://github.com/Sumresh

Our team spearheaded an Emotion Analysis project, employing advanced NLP techniques. Divided into Speech Recognition, NLU, and NLG, it aimed to comprehend and analyze user text input. We developed a sentiment analysis plan, including data collection, preprocessing, labeling, model selection, training, application, visualization, and evaluation. This project showcased our team's proficiency in NLP and its application in understanding text-based emotions.

Specs.Ai

01 Nov, 2023 - 15 Dec, 2023

Key Skills: Iot   Machine learning   Ai   Opencv   Flask   Tensorflow

Project Link: https://github.com/Sumresh

Our Raspberry Pi 3B+ Core leverages its technology to provide a versatile and cost-effective platform. With integrated voice assistance, it ensures seamless interaction, enhancing accessibility. Featuring advanced object detection capabilities, it is ideal for environmental monitoring and security. Additionally, it serves as assistive technology, aiding individuals with disabilities, making it an invaluable tool for various applications.

Ai Face Attendance

13 Sep, 2023 - 01 Nov, 2023

Key Skills: Machine Learning   Deep Learning   opencv   sql   Excel

Project Link: https://github.com/Sumresh

I developed a face detection system for management, utilizing machine learning algorithms for precise detection. I enhanced security with real-time alarm features. Additionally, I seamlessly integrated attendance management with an SQL database, ensuring efficient data handling and analysis.

Predictive Models

01 Jul, 2023 - 16 Aug, 2023

Key Skills: Machine learning

Project Link: https://github.com/Sumresh

In my projects, I developed prediction models for lung cancer, diabetes, and cancer cell detection. Leveraging machine learning and deep learning techniques like CNN, I analyzed medical data to forecast disease risks and detect cancer cells accurately. These projects demonstrate my proficiency in applying advanced ML and deep learning methods to address healthcare challenges and improve medical diagnosis.

ACHIEVEMENTS

- Runners up | AI Zyper Feb 2024 :It was a 6hrs hackathon We built an ML model which can predict the popularity of a post . It was trained from the given dataset which got an accuracy of 87% and also got up with few insights from the dataset
- 3rd prize | Cyber Hackathon 2024: Our team triumphed in the 30-hour hackathon hosted by the Greater Chennai Police - Cyber Crime Cell. We devised an AI app for emotion detection and translation, crossing language barriers.

ASSESSMENTS / CERTIFICATIONS

Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2024]

Key Skills: Machine learning   Deep learning   Data Cleaning   Dimensionality Reduction   CNN   Data preprocessing

This comprehensive course covers various aspects of machine learning, starting with data preprocessing techniques. It delves into regression methods including simple and multiple linear regression, as well as more advanced techniques like support vector regression and decision tree regression. Additionally, it explores classification algorithms, clustering methods, association rule learning, reinforcement learning, NLP, deep learning, dimensionality reduction, and model selection techniques like k-fold crossvalidation and parameter tuning.

EXTRA CURRICULAR ACTIVITIES

- Volunteering
- Student council

PERSONAL INTERESTS / HOBBIES

- Reading books
- Listening to music

WEB LINKS / IMs

- Other - https://www.linkedin.com/in/sumresh-nuresh-845aa2229/
- Github - https://github.com/Sumresh

PERSONAL DETAILS

Gender: Male
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